

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11835

catgctatat gtagcaaagt catcgatcct atgaagtatg atgagctgga atatgacgcc 60
 gcaattatat tgtgccagct ggagatgtat gtcctctctg cctactatga catcatgatn 120
 tactcgatgg tgcacttagt cagagaaatc aaatatgggtg gtcttggtta attgccatgg 180
 atgtacccga ttgagcgata catgaagatc ttaaagggga tactaagaat ctctatcgtg 240
 cacaatcadc tattggtgag ag 262

<210> 11836
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11836

araacgtntc actcggatgt cggattcaag cgcataatat atcgagacgc tcgatattga 60
 acaatggaag ctcttgagca attccaatgg tcataactct taactcggat gtccgattca 120
 ggcgcataat atctcgagac gttcgaaatt gaacaatgga agctctcgag caattcaaatt 180
 tgtcataact ttctactcgg aggtctgatt caggcacata atatttcgag acgctcgaaa 240
 ttgaacaatg gaagctcttg agcaattcat atggtcataa cttttcactc ggaagtccga 300
 ttcatgcgca taatatatcg agacgctctg aagttaacaa tggaagctct ttagcaattc 360
 acatggatcat aactcttcac tcggatgtcc gatcacgcac ataatatatc gagacgctcg 420
 catttgaaca ac 432

<210> 11837
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11837

ttgtgagccc tgggtgtgant gagtntccct cttcagataa atgtgaggcc cttcaccatt 60
 aggtctcttg tgatgctccg tcaacctttc agcaaaataa agaggactct cccgtccaac 120

ataatctttt agaatcccag ctagttctgt ctgcaattga naacatccat ctcagagaat 180
 ttccattggt tttccttcca ggaaactaca ttccattgta tggcttctga atgtagttaa 240
 catacaatga atgagtgcgc tgcattgtat ttagagagac agaaagttat tcttaataata 300
 attgagaaaa gaatgacatg gagt 324

<210> 11838
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11838

tctgtcggtc aatttttagtg tctcgatata ttattcacct gaatctgaca tccgtgagat 60
 aagttatgac catttgaatn tctcgagaac ttccggtgat caatttcgag catctcgata 120
 tgttatccac ctaaactcga catccgattg aanagttatg aaccattgaa tntctcgaga 180
 gcttccgttg ntcaatttcg agcatctcga tatattattc gcctgaatct gacatccgtg 240
 tgataagtta tgaccgatta aatatgtcaa catcttcggt cgttcaattt cgagcgtctg 300
 gatttattat ccacctgaac tggacatccg ttcgaaaatg tatgaccatt tgaattctcg 360
 agagcttccg ttgttcaatt tgagcgtctc gatataattat g 401

<210> 11839
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11839

gtgtctccat ggngagcagc tagtgtgtag tgaggaaaaa agatggaatt atgaggttgt 60
 gtgtagacta ccgccagttc aataaggtga cgaataagaa taagtacctt tttcctagaa 120
 taaatgacct tatggaccag ctgataagag cttgtgtgnt tagcaagata gaccttange 180
 caggttacca tcagatctaa gtgaagtent gaaatattcc gaagactgcc tntacgaccc 240
 gttatagtaa ctatgagtat ctagtatcta gtatttttct tcaatgtgac taat 294

<210> 11840
 <211> 265
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11840

acaatggtga gttggttgat gataagcaag tggtacttac attctccata gcanagtatg 60
tngatgatgt gaatngtgat atgggtccca tggaagctgg acatatgtng ctnggaagac 120
cttggcaata tgatagaggt gttgtccaca atggngtcac gaatcgatat tagttcttgc 180
ataaaggtaa naaggtagtt ctacacctcg tctccaagtg aggtgtgtga ggatcatata 240
acaatgagat taanaagaga aagag 265

<210> 11841

<211> 464

<212> DNA

<213> Glycine max

<400> 11841

acatggggta cgaatgagggc ccatgatata tcgagaggct cgaaattgaa aaatggaagt 60
tctcgagaaa ttcaaattgt cataactttt aacttggatg tccgattcac gcacataata 120
tatcgagaca cacaaaattg aaaaatggaa ttctcgagaa attcaaattgt tcataacttt 180
tgctcgaat gtcagattta ggcacataat atatcgagac gctcgaaatt aaacaagaaa 240
gctctggtcc aattcaaacg gccataactt ttgacatgag tgtatgattg aggcccatga 300
tatatagaga acgctcgaaa tgaataatgg aagttctcga gaaattaaaa ttgtcataac 360
ttttcactcg gatgtccgat tcagacacat aatatatcga gacgcttgaa cctaacaagg 420
aagctctggt ccaattcaga gggccataac ttttgacatg ggtg 464

<210> 11842

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11842

gttgatgcaa gaaggctatc caatggctct atttagtgaa nnagtaagtg gtctaccct 60
taactattca acttatgata nagagtngta tgccttagta cgggcttnga aaacatggca 120
acactacctt tatcccaagg aatntgtcat tcatagtac catgagtncc tcanatatat 180

caaggggcaa ggcaagctta acanaaggca tgcgaagtgg ggtggaatcc tagagcaatt 240
cccttatgtt atcaaacad 259

<210> 11843
<211> 184
<212> DNA
<213> Glycine max

<400> 11843

agcagagcaa ttatgacctc tccagcaaca gatacaaccc tggatggagg aatcaccccta 60
acctcagatg gtccagccct cagcaacaac aacagcagcc tggctccttc ttccagaatg 120
ctgctggccc aaacagacca tacattcctc caccaatcca acaacagcaa caaccccaga 180
aaca 184

<210> 11844
<211> 326
<212> DNA
<213> Glycine max

<400> 11844

gaggacacat gaacgataac acaattcatg gcgctccgat aaaggggttg agaatggata 60
attacactaa gcaatcacta ctcatagctc caaactcgaa ggtggaggac acatgaacga 120
taacgcaatt catggggctc cgaaaagatt gataatggag aattgctcta cgcaatcact 180
acgcatagct ccatacgaga aggtggagga cacatgaatg aaaacgcaat tcatggggct 240
ccgaaaagat tgagaatgga gaattgcact aagcaatcac tacgcatagc tccaaacttg 300
aacgtggagg acacatgaat gaaaat 326

<210> 11845
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11845

tagagtctga atagtctgtg cagtctgacc atctcgttga ggatgataag ctgaactaat 60
cttcagcttt gtccccaagg ctccatgtaa acttgccac aatcggaag tgaaccttgg 120
atccctgtca tatacaatac tacgaaagaa ttccatgcca cttactact tacttgatat 180

acaactccac tagctnttcc attctatacc tcatattcac tgggataaca cgagccagat 240
 tgggtgagtcg atctactat 259

<210> 11846
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11846

cgccttatcc cactaggtgg tgcgggtac atggatcaac ttccaccata atgttctatc 60
 aagtaccata cttctatcca aatcattaag ttcgagatcc ttnttgataa cctctcttat 120
 agtctctgtg ggtcttcttc tgccctgaat tgtttgtctt ctctccatct ggtctactct 180
 cctcactaca gagtctaccg gtcttctctc tacatgcca aaccacctaa gtctattgtc 240
 catcatcttc tctacaatag gcgtactcc aacctctct ctaatagctt cgtttctaat 300
 tctatcctgc cgagtcttac cacacatcca ccgcaacatg ctcatctnog ctacacctac 360
 tttatttctc atgtggctct tgaccgcca acattctggt tcgtacanaa tcgccggtct 420
 ttaccgcagt ccgataaact tttcctttaa 450

<210> 11847
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11847

ctctctcatg taatgatgta gaatctacag ccaaagactt caaaaaaggg ggtcattccg 60
 aaacatctcc tgtagttctt caagaagggtg agaaattaga agatttcagt gcaaagtagt 120
 ctcatctgac tgctaaacct gatcctccac agctcaattc tggaatcaat cagagaccaa 180
 aaagggtcac taaacctccc gaaagatacg gatttgaaga catggctgcc tatgcattac 240
 atgcagctga agaaatagat tcaaataaac cagccactta ccaagaagct atcaatcatc 300
 ctgaagctga nnaattgggtg tagctttgaa agaggaaatg gaatctttgt ataagaatca 360
 gacctggaaa ctttgtgaac tacctgaagg aagacatgtg gtaggtngca agtggatatt 420
 caagaggaaa cctgggtct 438

<210> 11848
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11848

tgctcaccaa cacaagataa gaatccctca tggtgtttca tgtaaacctc ttcttctaga 60
 tcaccattta ggaacgccgt gttcacatcc atttgatgca gctcaagatc aaaatgagct 120
 actaatgcca gaattactcg aagagagtct ttcttagata caggggaaaa ggtctctctg 180
 taatcgattc cttctctttg agtgaatcct ttagcaacaa gtcttgctt atgtctctca 240
 atgttgctt ctgagctctt ctttggtttg aagaccatc tacatccgat ggcttntcac 300
 caacaggcaa ctcaacgaga tcccaaactt ggtagatgc catagaatcc atctcatccc 360
 tcatagcatt ataccac 377

<210> 11849
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11849

acgggactga attagacatc cgagtaaaaa gttattgtag tttgaagatg ctcagagcnc 60
 taccattcaa tatcgagcgt ntcgatatat tacgggacta aatcagacat cagagtaaaa 120
 agttaatgtc atttgaatta tctcagagct tcggtattcc atttcgagcg tctcgatata 180
 ttacgggagt caatcagaca tccgagtaaa aagttactgt cgtttgaatt ngctcagagc 240
 ttcgataatc aatttcgagt gtctcaatat attacgcgac tcagtcagac aaccgagtaa 300
 aaagtattgt cgttggaatt tgctcaaagc ttngtattc aatttcgagt gtctcgacat 360
 attatgggac tcaatc 376

<210> 11850
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 11850

tggatttctt tttagtaggg agtctatcct tcctaagatg gagccaaacc cactcacct 60
 cattaagaat tagctttttt ctctctctat tgtctttagt tgaatacacc tttgttgat 120
 tctctatttg gttcttaacc ttctcatgca acttctttac aaactctgac ctagattccc 180
 cttctttatg tataaaaaaa gtgtccagtg gaatgggaat gaggtctaata ggtgttaggg 240
 gattgaaccc acctcaaaag gggattgctt ggtggttcta tgagtccccc tgttgatga 300
 aaattctaca tgaggaagat actcatccca agacttatgg ttgtctttca ga 352

<210> 11851
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 11851
 agcttctctg aagtcaaacc acacacatat atatcatg acatgggaca aaatagttct 60
 tataaaaatg ttttcccag aacaagtaca cgtaaattat aacaaatgaa caaacaaaaa 120
 agcatacttt cattgtctcc tatcaaagt atcctgagaa aacaaacaaa agtgagtcac 180
 ttacaggga caaattcttc cagaactgaa gatcagctt aggaggctca actatcttgg 240
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggtaagcc 300
 aagggtatgg gaatgcattc atcaccttct tgttataaat gttgaacacc acattcagtg 360
 cccaccatgt agcaaagtat attccaatct tcaccttctt agcagcctct gatggagccc 420
 cagccctcc aacctttgat ctatcag 447

<210> 11852
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 11852
 acttgccagg tgattcaaaa tgaaaaaggt ctctacattg tttcaattag aagatcatgg 60
 aggtaaattt cacaatgact cttttgaaaa cttttgtgaa gaaaatgtat ttcaccacaa 120
 tttttcagcc ccgtcagcac ctcaacagaa aggtgttgtg gagaggaaaa atatctcct 180
 tgaagaaggt gaaagaacac ttctaaatga aacaagggtg cgtaagtatt tttgggcaga 240
 tgttgatcat actatatgtt acaccttta caaagtactt attagacctt ttctgaataa 300

aaatccttat gaaccgtatt aaggaagaaa actgaacatc tctcacctaa tagttttttt 360
gcaagtattt tgtttttaca atggtaa 387

<210> 11853
<211> 378
<212> DNA
<213> Glycine max

<400> 11853

tgccgccacg gagtttttcg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg ccggttagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagttgc acgagtttgt tgaaatggat gatttgcttc acaaagcaat 360
ccaagtggag caacaatt 378

<210> 11854
<211> 354
<212> DNA
<213> Glycine max

<400> 11854

agcttgaaat tgaacatcag aagctctcaa gatattcaaa tggtcataac ttgtcacaag 60
gatgtccgat tctggcgcac cacatatcaa gacgtctcaa attgaaaatc ggaagctctc 120
gcgaaattca agtggtcata acccgtcatt cggatgtccg attcaggcac ataatatatc 180
aagatgctcg aaattgaaca acgaatgctc tcgagaaaatt caaatgggtca taacttggtca 240
cacggatgtc cgattcaggc gcataatata tccaaacgct ctaaattgaa catcggaagc 300
tctcgagaaa ttaaattggc atacttgtac accgaagacc gatctgcgca taca 354

<210> 11855
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 11855

tcctctaagn cacctgctgc atgcaagctt gcgaattttg gcgatatcag gggacatatg 60
cttgatgact gcagtgagaa caccaacctt ccacgccttc ttttaagtcac gtgggttactc 120
gtatagagga gggccttgat ctttatgtag accaatttga tgccaccatt cttcattccc 180
agttggccac catgggtggaa gaacacctt ctctattggg aacctctct gatgaggatc 240
acagtgctgc ataagtgtg acaagataga acccaagggt gtgtccttgt aactcttgca 300
agggtgtgtg tgctgaccaa tggaactgat ccatcatt 338

<210> 11856

<211> 405

<212> DNA

<213> Glycine max

<400> 11856

tccaatgtat aatttcgagc gtcttcatat attatgcgcc tgaatcggac ctccgagttg 60
aaagttatga ccatttgaat ttctcgagag ctttcgttgt tcaatatcga gcctctcgat 120
atattatgcy gctgaatcag acctccgagt gaaaagttat gaccatttga attgctaaag 180
agcttcaatt gctcaatttc tagcgtctcg atatattatg cgcttgaatc ggacctccga 240
gttaaaagtt atgaccatta gaattttttg aaagcttccg ttgttcaatt tctggcgtct 300
tgatatatta tgcgcctgaa tcggacctct gagtgaagaa ttatgacct tcgaattttt 360
tcagagcttc cgttgttcaa tttcaagcgt ctgatatat tatgc 405

<210> 11857

<211> 387

<212> DNA

<213> Glycine max

<400> 11857

tcatggctct gctattgatc tatcaaggaa tccagtctct catgaccgaa ttaagcacat 60
tgagactaaa tttcattttc tgagagatca agtggctaaa ggaaagggtta agctagtgc 120
ttgtataatt gaggttcagc tagctgacat aaagactaag gctttgaaag ctggcagatt 180
caatgagctg agaaggaaaa taggagttca aagtttgag gattaagaat ttttgttcaa 240
taaagtgtgc tgtaatgttc ttgttgtgga ttcactgttt ttgaatcaaa ggggggtgtt 300

agggataatt caaaaaacag ctactaattt gttaatagtt gatggcggtt agttagttga 360
 cttagcctat atatagacat atgggta 387

<210> 11858
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11858

agctntacag caaatgccac tctactccaa attcttgatg gatatgttaa caaggaaaca 60
 taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtggtg tgattcaaaa 120
 gatecttcca cccaaacata aagaccctgg gagtgttaact attccttggt caattggaga 180
 agtcaccgtg ggaaaggctc ttattgacct gngagccagc attaatttaa tgccactctc 240
 catgtgcaaa aggttgggag agttggagat catgcccact aggatgactt tacaacttgc 300
 tgaccgctcc attaccagac catatggatt aattgaagat gttttggtca gaatgaaaca 360
 ntttatcttc ccggtagact ttgtggtaat ggatatctgt gaagatacta acattcctgt 420
 aatattggga aggccattca tgttaactgc aagctgcata gttgatatgg 470

<210> 11859
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 11859

atgcaagctg gaaggcaaac tggatgcatt ggttgactgg gtaaccacagc tggccttgaa 60
 tcagaaatct gtacctgtcg caagggtttg tggtttgtgc tgctatgctg accaccatac 120
 agacctttgc ccttccatgc agcaacctgg agcaattgag cagcctgaag cttatgctgc 180
 aaatatttac aatagacctc ctcaacctca gcagcaaaat caaccacggt agagcaatta 240
 tgacctctcc agcaacagat acaaccttgg atggaggaat caccctaacc tcagatggtc 300
 cagccctcag caacaacagc agcagcctgc tccttccttc caaaatgcta ctggcccaag 360
 cagaccatac attcctccac caatccaaca acagcaacaa cctcagaaac aaccaacagt 420
 tg 422

<210> 11860
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11860

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agcttgacaa taaaccgact taggattnta agtattatit tgctattgga taaaattatt 60
ttttaatcac aaatitttact ttacaacatg tagattatga aaattaaaat tacaaataat 120
agaagtgaat aataagtttt agttcatata ttacagaagg caaatittaaa atatattcatt 180
cattttttata attataaaact ttataattat aaaagatgta aaaaattatt catagttaat 240
aattaaagta aatccatgtc aaatgacaca tataaagcgt aataattnta ttatatattta 300
aaattcaaca aaaaaatcat tcatagaaga atattttaat ataaatgaat ataattattta 360
aaattggttc aatcaaattg gaaaacttga ctgctgagct atagtggaga tttttttttt 420
caattatatn ttttttatct ataaaattta catctaagac cttat 465
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<210> 11861
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 11861

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tatgggtttta atttcgagca tctcgatata ttattggact caattggaca tccgagttaa 60
aatttattgt cgtttgcatt tgctcagagc gttcgttttc cattacgagc gtctcgatat 120
attacgagac ttaatcggac atccgagcta aaagtaattg tcgtttgcat ttgtcagag 180
ctttcgtttt ccattacgag cgtctcgata tattactgga ctgaattgga tatccgagct 240
aaaaggtatt cttggttgca ttgtctacga gtttctgtgt tcaattttga gcgtctcgat 300
atattacggg acttaatcag acattcttgt aaaatgatat tgctggttaga aatcgctcac 360
agctttttgta ttcaatttct agcgtctcga 390
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<210> 11862
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11862

agctngaate agacctcagt gtaaaaagtt atgaccattt gaattttctcg aggggttccg 60
 tttttcaatt tggagcgtct cgatatatta ttgcctgaa tctgacatcc gtgtgataag 120
 ttttgaccat ttttaatttgt cgagagcttc cgttgttcaa tttcatacct ctcgatatat 180
 tatgcgctcg aatcggacct ccgtgtgaaa agttatgaca atttgaattt ctgcgatct 240
 tccattgttc aatttcgagc gtctcgatac atgatgcgcc taaatcggac atccgagaga 300
 agagttacta ccatttgaat tctcagagag cttctcgtgt tcaatgtoga gcgtctctat 360
 atattatgct cctga 375

<210> 11863
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 11863
 agcttcttag tttcagatga tgcagatgag ttgtagtca cctcatgcac tcctctaattg 60
 actatagcat cttttttggc gctaaactgc tgggagtagg aagccatctt ctcaattaaa 120
 tttttggctt cagcaggagt catgtctcca agggctccac cagtggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240
 tgatggtgag ggcagctggc acatagtttt ttaaattctt cccagtattc atacaggctc 300
 tctccattga gttgtctaata acctgagata tccttcttga tgg 343

<210> 11864
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 11864
 caagcacaga gacatatatt ccaactgatt tatagcagca tatgcttttt tgagtgaaaa 60
 acaatgcgtc taccggggaa ggagagtctg ctgatgaaat ctcccataac cataaatgag 120
 attttgatg ttagcatttt gtttctaaat gaccatttag aggaaacact gggttcgaca 180
 aaaatagaag aaatccactc aaagtgtatc aatctcgac aggtaagtgt ttcatectaa 240
 ttccgaacca tagatatgtc atgacttgac ttgcaaatt atttcctatc aaatcaaaaa 300
 ttacatgcgt gatcatggat caaataggac ttcccttggg aatgggtttt atattatggg 360

tttt

364

<210> 11865
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11865

tgtgaacaag attcttgacc ggtccgggtt gggaccgtgg acgtatgtcc cggagggtct 60
cctggagatc cctcccagac taacgttgga ggaggcaagg aaggagacgg acacggtgct 120
cttcggggcc gtcgacgagc tcttgagaa aaccggtgtt gaagccaaag acattgggat 180
tcttgtggtg aattgttgct tgttcaatcc cacaccatct ctctctgact ccattgtcaa 240
ccggtacaag cttagaggga acattttggc ctataatctt agtggcatgg ggtgcagtgc 300
tggggttctt gctgttgact ntgccaaca gctcctacag gttctctctc accatcatgc 360
taataaatta gtattccatg catttntgta ttgttttact gccatcacat atatctctc 420

<210> 11866
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11866

agcttcattg acttttcata tagtatnttt ttatataaat aagtatcggt tagaaaactg 60
tgtaatttcc ccccaaaagc aacatttttc aatgctgtgt catatttttt aatatttctt 120
tacgtagtta tattttaaacc agtattttat agaaacaata aggagatctt tttaaaaaaa 180
aagttatata tattggaata aatgcatgtg cattttttta atatgtattc acacatatga 240
aaacaactaa tggcgatata ataaaaaaaa aaagttgtaa gtaaagatta aaaaaacaag 300
ataattttat agcatgactc cggataaatg aaatgagtct cgctaggggt atgaattgga 360
ttatcaatta ttaaagaga atcgcattha caagtaaaaa ataaaataga attgtatatg 420
ggaaacactt acatatatct cttttttata catatatatt 460

<210> 11867
<211> 405

<212> DNA
<213> Glycine max

<400> 11867

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atggcttttct tgaggaaaga gacatgaaag accggatgag ttttactgtg agatggaaga 120
tctaacttat aagcaacaac acccacctta tttaacacct ggaaaggacc ataaaatcga 180
ggggagagtt tttcattaat ccttttagcc aaggatcttc tcttgtaagg ttgcatcttc 240
aagaacaccc aatcacccgac tgtgtattct atgtcctgac gacgtttggt ggcatttgct 300
cgcatgatat cttgagactt caacaaattt ctcttagagt agccataatt atcctaacca 360
ttggtagtgt attgacttct tcatgcggga ggaatgggga tcctt 405

<210> 11868
<211> 385
<212> DNA
<213> Glycine max

<400> 11868

agcttacaaa tctatcttaa gtccaagccc atacacgaaa taaaataaaa tctagacaag 60
ataagataag attggatgaa ataaaatcgg gataaaataa aatctagatg aaataaaatc 120
tagataagat aagatttgat aaaataaaat tgtctgctct cttcaagtcc aagcccaatt 180
ctggattcaa gctcaattgc ttataattct cctgaaatta aattaaaaac acaaaatttg 240
ttaagtaggc ccaaatgata aaactgcata attaatgtga caattaaggc taatcagtaa 300
ttaaaatggt gacaaaaaag gttaagaaat aggagaaaat aatgacacat caagtgcaaa 360
ctatggatct ttcaccagtg gcaat 385

<210> 11869
<211> 417
<212> DNA
<213> Glycine max

<400> 11869

tgtgactggt agagttatca tctctctcgc tatctctcag aagtggcctc ttcaacaact 60
atgttaacaa tgccttcctt aatagcactc atgaagagga agtatacatg tcacagcacc 120
tggttttgtg ttttctaaca agcagcaagt tttgcaagtt acacaaggcc atctatggtc 180

taaaacaggc cactagagcc tggtttgaca aactcaaaac tacccttctc agttttaagt 240
 gtttccagca aatctgatcc ttcaactattg gtgttttctg ataatgctgt tgttgtatat 300
 attcttgtct atgtagatga tataatcacc actggaaaca acaccaagtt gattaattct 360
 tctgtacgtc tgctaaattt tgtatttttc tcttaaagaa cttgggtgact tggacta 417

<210> 11870
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11870

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 agcgtaaaca tgttgttgtg cttgaattat ttattaaaat taattgtatg tttattttgg 120
 tatttaagca tacaatatta agctaaacta aataatttat gcatattaaa tttaatgggt 180
 aagagtttat atgtttcaaa tattagataa tcatatgcat ataattttta ttttaattttg 240
 aagttttgtg tgtatgattt atgattttat acatgcgana ttatcttgaa tattttatac 300
 aatattattt gggttattta cattatgtaa aatattatat gaatatttaa ctccatttaa 360
 gaatgaatgg taagtgatta atataatttt at 392

<210> 11871
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 11871

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 gggctcttca atatcttact ttcaactcaga ctgatatac ttatgccgtg cagcaaaatt 120
 gtcttcatat gcatgctccg acaaagtgc atagagtgc tctcaagcgt atcatatgct 180
 accttcaggg tactttatcc catggtttgc atttgtacaa atccaccatt gatagactaa 240
 tctcttatac agatgctgat tgggtgtgggt gtcttgacac ccacgttcc a 291

<210> 11872
 <211> 390
 <212> DNA

<213> Glycine max

<400> 11872

tgctcgcgct aagcgcatag acccttgatt ggttggcaag atagttcagc tgagtgcaca 60
tcaactgtgct aagccccgca tctttacggg aattgaactt taaccagtgg gcttagcatg 120
gatgatgcac taagcgccac ttcttcttga gaaaaattta tcgtagcaac gctaagcgca 180
ctatcctgcg ctaagcccta gatccattct gtaacttgag tttttaagct gggcttagcg 240
ggccagattg aagggtgtaga ctttgatgaa acgtttgccc cggttgctag acttgagtcc 300
atcagattgt tacttggtgt agcttgcac ctcaaattca agctgtacca aatggatgtg 360
aagagcgcggt ttctgaatgg atacctgaat 390

<210> 11873

<211> 404

<212> DNA

<213> Glycine max

<400> 11873

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tatttgtttg atcaaaaaga gcttaacatg aggagagga gatgggttaga gttccttaag 120
gattatgatt ttgagcttag ctatcatcca ggtaaagcca atgtagtagc tgacgcctta 180
agtagaaaat ccttcaaatt gtctgctttg atgggttaaag agttggacct cttagagcag 240
tttagagaca tgagtttggc atgtgagatc acctctagta gcattaagtt ggggtatgtg 300
agagtcacca gcgaactttt gagcgagatc cgtgagggtc aaaagtttga ccgattcttg 360
tcagcccacg tagaatccat agtcgcaggg agagagagta gttt 404

<210> 11874

<211> 416

<212> DNA

<213> Glycine max

<400> 11874

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aaacttatag tatacaataa catacatata attgaaattt taaattaact acttgaatta 120
aattctcatt gtaattaatt ttcaatgtca attatatttt taaaaattgc acaacacaaa 180

actttctata atgagttgta atttccaagg tattacatta gtcattacaa attatgttta 240
 ttttgccttt tgtaacattt ttttaactat taagaaaata tggttattat ataaaaaaat 300
 atagatattt gtatcttttg aatattttat acgtcagaca caaaactgtc ctataattta 360
 tcgagtaaaa agaaaataag ctttattcta ttgatttttt atctcatata tttttt 416

<210> 11875
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 11875
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 gtaattaatt tcaatattaa ttatatctcc acatatacaca caagtacaaa actttatata 120
 aaataagtta taaattttat ttatgatgtt accagcaaga ctatccgatg acctgtgatc 180
 cattgaattg tcaactagga caaaaataat acacagacaa ttatgtgagc aacatatatg 240
 acatcttaga atcatcaata tgagatataa gttgacatat tcaagtgtaa atattatgag 300
 taatattata ctagaccaac tcaactgtgag aagacttcaa aatagttaag taaatgtcat 360
 gataagtgtc tcttatgata attatattat gtgataacta catcatatat g 411

<210> 11876
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11876

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 gtccacttgg accccatttc taccaactac aaaacctaag aagactatat tatctacaca 120
 aaaggtagac ttctctatat ttgcatagag ggtgttttcc ctaaggactg aaagaacttg 180
 cctgagatgt ccgaagtgat catctaggct cctactctac actaaaatat catcaaaata 240
 aacaactaca aatctaccta tgaaatccct taagacatga tgcataagcc tcataaaggt 300
 gcttggtgca ttagtgagcc caaaaggcat cactagccat tcatacaaac caaacttggt 360
 cttgaaagcg gggttccact catcaccctt tttc 394

<210> 11877
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11877

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agcttcaatt gtgacgggtg tatatccacc actcaattat ttcatgaagg ttagaaaaaa 60
attacatagt tgaatcaaca tcattaccaa tgtgattaga atgataaaaa aacctaacaa 120
atgaaatcca acacatcaca tgataattag aaaaatgcaa taacaataaa gaataggaat 180
attataaatt agatatacat aaattaatat tatgtacaga gcaaaaatgt ccaaacaatt 240
taacaacatt tttgttgatc cataaaatat cataatttgt gcctaaatcg gaaccaatct 300
agatccaagt gtgattttaa aaccataatt cttaaaaaga ataaattatt ctacattgtg 360
aaacatattc aatgatctag cacacaaata cattgcaacc ataataaaat aatgttagct 420
atcaacaata aaaactcaaa acanaaaaaat atgtc 455
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<210> 11878
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 11878

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tggtttttat cgcccgctt ctttatttct ctttgacgag gttgaaaagg ctcatgaaga 120
tggttttcaaa gtgtttcttt agattttgga tcatggtaga ctgacaaatt gcctatgaaa 180
agttgtggac ttcaagaaaa ctattattat aataacttta aatattggat ttggtaacta 240
gtccaatgat atacagagta agataccaca agtggaatg acaagcagac ccaagaggaa 300
aaatatcaac accaaagtat ttagcatatt ataattgatt tatgtcttgt attaagagta 360
tgaataatta aggtctatgg agacata 387
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<210> 11879
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 11879

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gcaaaatgga gaaggaagaa agatgattgg agacgccact tcaaggagaa gatgagtcaa 120
gaacaagctt accaccatag gaagcaatgg ataagagctt gaaggtagga gaagataagt 180
ggagggagaa gaagaaaaag agcacagaat tttatgcctc aaatgaggtc taaactttga 240
agtgtaatc tcaaatgac aaagttgaaa aaatgcatac acaaggcctc tatttatagc 300
ctaagtgtaa tacaaaatta gagggaaaatt tgaatttcta ttcaaatttc acttg 355

<210> 11880
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11880

tgtaattatg gttgatccag tatttgata taagagtatc agtatatgaa ttgggttttag 60
cccaggttca taacaaattt aaaaaattta tactcgattt ataaaattaa caagagattt 120
taatttcaag ttctagttat aaaattacat taaatattta aagaaaaaat taatcaccta 180
taatgattat ataaaactcg agtatggctc acaaaaacaa aatgaaacat tgtctttaa 240
gtctaagttt atattttttt gttaactntg tatttttaac atttgagaca tagaactgta 300
cgtactagca agcagcggca cgttgagtaa gtctaggaat acacgtgaga tccaataaat 360
agaaattaaa aaatatattg aaaacattaa atttaaaggt tatttatata taata 415

<210> 11881
<211> 260
<212> DNA
<213> Glycine max

<400> 11881

agcttgcttc cctgttcttg attattgtag agaaacatag ggagccaaat gtcttcagat 60
ttgttagctt tggttttag tcgtgccatg cttcaaatgg agtctttttc tgcaaagctt 120
ttgttggtaa cctattcagc aaaaaactgt tgtgtgtgca gcctctgcc aaaattcctt 180
tggtagccct ttgtcatgaa gtaagcacct tgtcatctcc ataattgttc gggttttctt 240
ctcgacaaca ccattctgtt 260

<210> 11882
 <211> 254
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11882

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 aacttgacgt caacaatgct ttccttcatt gtgatctgca tgaggaagta tatatggatc 120
 tgcctcctgg gttcttgagg cctgggtctt cttctaataa agtctgcaaa ttacataagt 180
 ccttatatgg actgaaacaa gctagcagac agtgggtctc caagttatcc actgctctta 240
 tctcccttgg atac 254

<210> 11883
 <211> 247
 <212> DNA
 <213> Glycine max

 <400> 11883

 agcttataat atatttatac gctcgaaatt aaacatcgaa aactctcggg aaattcaaatt 60
 agtcataatt attcacacgg atgtccgatt cgggcgcata atatgtcgag aggcctcgaaa 120
 ttgaacaacg gaagctcttg agaaattcaa ctgggtataac ttttcacacg gatgtccgat 180
 tgaggcaaatt cacatatcga gacgctcaaa attgaacaac ggaagctcct gagaaattca 240
 aatgggc 247

<210> 11884
 <211> 261
 <212> DNA
 <213> Glycine max

 <400> 11884

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 tgcttgaaga gattccaaga agaagaaatc aatgataggg agaagcaaga gaagcgagaa 120
 tccatatgga aacaactgga agatgttgct gcagctaatt ctgtaagcaa tgaggccatc 180
 cttgtctcaa gatttgtgtc ctctgttgca attgctacca gtgctaataa attggcaact 240
 gcaggtggtt gagagccatc a 261

<210> 11885
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 11885

agcaccaacc tgacagcggc ctggatctcc ctggatgtaa tggcggcctt cttgttatac 60
 ctgcgcgagac gcgctgcttc ctgcgcaagc ttctcgaata tatcgttgat gaagctgttc 120
 atgatcccca tggccttgct cgaaatgccg atgtcaggat gtacctgctt cagcaccttg 180
 aatatgtaga tc 192

<210> 11886
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 11886

acctgacatc acctttgcag taggtgtttg tgcaagatat caagccaacc ctaagataag 60
 tcacttgaat caagaaaaga gaattctgaa atatgtaaat ggcaccagag actatgggat 120
 tatgtactgt cattgatcat attcaatgct gggtgggtat tgtgatgctg attgggctgg 180
 aagtgcagat gacagaaaaa gcaacttctgg tggatgtttc tatt 224

<210> 11887
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 11887

acactttttg gggtagggca ttcttggtat gccttgaatt tctcaaggtc cacttggacc 60
 ccatttctac caactacaaa acctagaag actatattat ctacacaaat ggtatacttc 120
 tctatatttg catagagggt gtttttctta aggactgaaa gaacttgcct gagatgtcct 180
 aagtgatcat ctaggctcct actgtacact aaaatatcat caaaataa 228

<210> 11888
 <211> 190
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11888

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acaatagctt gtccctcctt ttcagaatgt tgctggtcca accaagecat atgttctctc 120
tccaatacag cagcagcaac aacagcagtc acaacaaaga taacaagcaa ctgaggcnnt 180
ctctcaccct 190

<210> 11889
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11889

caccctgagt cttaagggag ttccaaaacc gagtgacata cctcaagta caagtatttc 60
cccttatgag aaacttcaag tacttactcg canagtttat actatntcca tgcaacatga 120
agtatgaaac atgggtacca tcaatgcaca nactgtggat aattaaagat tctaagtcac 180
cccccttcat agatgcttan aactctctaa ccactctnnt cctcaccagg gatatccatc 240
atggtaactg aaccnccat gtacatacac aacatacatc atcacaatga cattntcaac 300
atcaacaaca tntcatctca atgtcattat caacatcaac atcatc 346

<210> 11890
<211> 252
<212> DNA
<213> Glycine max

<400> 11890

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atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgagtcctgt aatacatcga gacgctcgaa attgaatgtt 180
gaagctctca tcaaattcaa accacaataa cttttttact cagatgtctg attgagtcct 240
gtaatatatg ga 252

<210> 11891
<211> 195
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11891

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gcacgttgac aaggaggatc angagctgtt ccattctcgg gcttgtacag tatccacggt 120
ttcaaccctt caagcccttg agctacgtag ccganagtag accatgagct cgtgaccaac 180
atgtcggtea agctc 195

<210> 11892

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11892

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tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatatat tgacttcac cttctttggag 180
actagacatg tggaggagta actggtttct tgagggtgcc ataggtaaca gttgtccttt 240
gatctgctgc 250

<210> 11893

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11893

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atgcaactct tggctacaaa attcgaanat ctgaagatga aggaggaaga gtgtattcat 120
gacttcaca tgaacattct tgannatgcc aatgcttgca ctgccttgng agagaggata 180
acagatgaaa agctgggtgag aaagatcctc agatccttgc ctaagagatn tgacatgaga 240
gtcactgcaa tagaggaggc ccaagacatt ngcaacatga gagtagatga actcat 296

<210> 11894

<211> 294

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11894

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 atggcgagac tcacgaaggc caacacgttt agccttttca atgtactctg gacaaaattc 120
 aatggcttct tctgcaatgt acctttcaac aatagatggt tccggatgat gtaaattctt 180
 ggtataccct gttaagatct tcatgtatcg ctcaaccggg tacatccact gcanataaac 240
 aggaccacaa catangtatt ctctgaccac atgaacaatt aagtgaatca tgat 294

<210> 11895
 <211> 250
 <212> DNA
 <213> Glycine max

 <400> 11895

 agccattctc ctttaactgc acaaggctct taatatTTaa agagtatcct tgtggaacct 60
 tcaccagcgc aagacactga aaaaaaaact tatcttctcc tttttggaaa aagtatgaca 120
 agctgggggc aagtaaattt tcttccatt agaccttga tgcagctgtg atcgtgtccc 180
 catctcagct agatcttgac ggggtattcaa gccatccttc gtcttgctt gaatgttaag 240
 gagtgtccca 250

<210> 11896
 <211> 212
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11896

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 tgaacagctn gaagcttatg ctgcanacat ctacaataga cctcctcaac ctgagcagca 120
 taatcagcca caacagaaca attatgacct ctccaacaac aggtacaatc tctgggtggag 180
 gaatcatnch aaacagcagc aacaacaate tt 212

<210> 11897
 <211> 327

<212> DNA
 <213> Glycine max
 <400> 11897
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 gatattcttaa aaaggggggg ttgaattaag atatcacaac ttatttcccc aattaaaaat 120
 tctagttatc tttctattcc agttataaat tcccttaata atgaatttct taaatattga 180
 ttcaaataata acaatttgaa tataaatata aaacaataat aaataaagga gtttaaggga 240
 agagaaaatg caaactcaga ttatactgg ttcgccaca cccttggtgc tacgtccagt 300
 cccaagcaa ccccttgag agttcca 327

<210> 11898
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11898
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 caacagtcac attntnttat ctgtttctta aatgggtcatc aaaggcttat atatatgtga 120
 cttgagacac gaatttaaca agagttttca agagcaaaaa ggtcttatcc tcttaaaaag 180
 cagaatagtt ttatcctctt acaaattcct tggccaatac acttggtgatt caataaagaa 240
 ttatttgagt gtcaaaattg ttcaatctat ctctttcaag agagatttct tectctcttg 300
 anaagggatt aagagaccga ggggtctctg ttgtgaaaga attctaaaca c 351

<210> 11899
 <211> 328
 <212> DNA
 <213> Glycine max
 <400> 11899
 tagcttctac agaaggtttg ttctaattt ctctacactt gcctcacctc tcaatgagct 60
 ggagaagaag aatatggcat tcacttgggg tgaaagacaa gagcaagtct tttctttgct 120
 caaagaaaag ctcacccttg cccctgatct aactcttcct aacttttcta aaacttttga 180
 gctataatgt gatgcctcta aagtgggtgt gtgagttgaa ttgttgcaag gtggacacct 240

tattttcttat tttagtga aaattcatgg tgccaccctc aactacccca cttatgataa 300
agagctttat gcctataata agagccct 328

<210> 11900
<211> 322
<212> DNA
<213> Glycine max

<400> 11900

agctttcact cgcattgtcg attcaagcgc atagcgtatc gagacgctat aaatctaaca 60
aaggaagctc tcgagaaatt caaatggtea tagcttttca ctgcgcatgtc cgattcaggc 120
gcataacata tcgagacgct ctaaattgaa caacatattt tttcgagaaa ttcaaatggc 180
cataactttt cactcggatg tcgattcac gcgcatacgc tattgagacg ctcgaaattg 240
aacaacggat ttgtttgaga aatccaaatg gtcgtaactt ttcactcgca tgcccgattc 300
acgcgcataa catatgtaga cg 312

<210> 11901
<211> 245
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11901

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gataaaggta gtgttgccat gttttcaaag cccgtactaa tgcatacaac tccttatcat 120
aagttgaata gttaagggtg ggaccactta acttttcact aaaataagca attggatggc 180
cttcttgcat caacacagcc ccaatcccaa catntgaagc atcacactca tattcaaaag 240
atattt 245

<210> 11902
<211> 326
<212> DNA
<213> Glycine max

<400> 11902

agcttggaact tgctgtgttt ttggaacctc tccttctca ggtggaccca aacccaatca 60
cctggttcaa gcacgacttt cttttctgctt ttgttggtt gccttgcata gctcgcattt 120

ttcttttcaa tttgaacctt cacttgetca tgcaacttct tcacatactc agcttttagcc 180
 tgtgcatcct tatgcttaaa cataccaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300
 cgattataag caaactcaac atgagg 326

<210> 11903
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 11903

agcttaaaca ttcaacttcg ttcgtttcga tatattatgg gactcagtca gacatccgag 60
 taaaaagtta ttgtggttag aatcgcaact gaggttcaac attcaatttc gagcgtctcg 120
 atatatgacg ggactcaatc atacatccga gtaaaaagtt attgtcattc gaattggctc 180
 agagctttca acattcaatt tcaaacgtct cgatatatga cgggactcaa tcagacatcc 240
 gagtaaaaag ttattgtcgc ttgaatttgc tcagaggttc tacattcaat ttcgagctta 300
 tcaatatatt accggacttc atcatacatc 330

<210> 11904
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 11904

agcttgttct tctacaaaac ttttatgaaa caatgacaaa acaaatgtgg atgtagaaga 60
 gtgagtgtct tggtagtag caaaaaata tgtatcttct tgaaagatga cgtttctaga 120
 aactcgaatc ctatgtaaat gaggatcata gcatataaaa cctttttgat gggttgagta 180
 accaagaaaa acacatttaa cagattgagc tgtgggtttg gtgtgttcta gtggctaaag 240
 atgaacatag tagacacaac caaaggtgcg aagagtggaa taattaggtg gcttaccaaa 300
 taaccttaag aaaggggaat cattatttaa ggctt 335

<210> 11905
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 11905

agcttttact cggatgtect tttagagtcgc gtcatatatc gagatgtccc aaattgaaaa 60

tagtagctcc tagcaaattc aaaccataat aactttttac tcggatgtcc gatttgtgtcc 120

cgtagtatat cgtgacgctc gaaattgaaa acataaggtc tgagcaaatt caaacgacaa 180

taacttttta ctcagatgtc cgattgagtc ccgtagatat atcgagatgc tccaaattga 240

aaatagtagg ttcttccaaa ttcaaaccat aataacgttt tactcggatg tctgattgag 300

tcccgtaacta tctcgagacg ctcgaaatt 329

<210> 11906

<211> 326

<212> DNA

<213> Glycine max

<400> 11906

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gaggatggag aattgcacta agcaatcact acgcacggct ccaagctcca ggggtggagga 120

cgcatgaacg aaaaagcaat tcatggggct cccaaaaagg gttgaggatg gagaattgca 180

ctaagcaatc actacaaacg gctccaaact cgtgggtgaa ggacgcatga acgaaaacgc 240

cattcatggg gctccgaaaa aggggttgagg atggagaatt gcactaagca atcactacgc 300

atggctccaa gctcctgggt ggagga 326

<210> 11907

<211> 326

<212> DNA

<213> Glycine max

<400> 11907

agcttgtgca tccaattctc tggtgaggat gtcccatatg ttcttaaaac tggactgatt 60

catttgcttc caaagtttca tggccttgca ggtgaagacc cgaacaaaca tttgaaagaa 120

tttcacattg tctgtctcac catgaaaccc ccagatgtcc aagaggatca catatttctg 180

aaggcttttc ctcatcatt aaagggagtg gcaaaggact ggctgtatta ccttgtctca 240

aagtccatca cgagctggga tgaccttaag agagtattct tagaaaaaaa ttcccttgct 300

tccaggacca cgagcatcat gaagga 326

<210> 11908
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 11908

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agatttagat tattattata ttttggtttt taagccttgt atttggtat gtttttatga 120
catttgaaca cttagtattt cttttaatat ttgcttagta tgattgaaca tgatgataat 180
atttacttgc tcttggttgt ttatggttat ggttggttaa ctttaattatt ttgatgatat 240
atatgtctag tggatgttac ttacatttgg tattgtgctt tatgtatgta ttagaattat 300
ttatgtatga tttattttac acactttgg 329
```

<210> 11909
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 11909

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acagtggaat ggataaggaa gagagagagg agatgccact tcaaggagaa gattagtcta 120
gaagaagctc accaccatag gaggccatgg ataagagctt ggaggaagaa ggagatgaat 180
gaagggagag gaagagaaca gcacaaaatt ttgtactcta aaagcgctat gaaatctgat 240
gtttaattat caaatgatca aagttgaaaa aatgcgcaca caagacttct atttatagcc 300
taagtgtcac acaaaattgg aaggaaattt 330
```

<210> 11910
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 11910

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acagaacaat tatgacctct ctagcaatag gtacaatctc ggggtggagga atcatcccaa 120
ccttattttc aaaatgatgc tggcccaagc agaccatacg ttctccacc aatccagcag 180
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caacaacaac aacaacccca gaaataccaa acagttgagg cccctccgca accttccctt 240
aaagaacttg tgaggcaa at gactatgcaa aacatgcagt ttcaacaaga gaccagagcc 300
tccattcaga gcttaactaa tcagatggga caatt 335

<210> 11911
<211> 332
<212> DNA
<213> Glycine max

<400> 11911
agctttggag ttaccaagtg tcatttcgtc ttcttctttt gaccagtctt cttctggctt 60
caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caagttctgc tatecagtga ttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ttgggttccat ccagaattgg tgggtctgtc actggctctc cttctttctc 240
catgttcac cagaatttate tccctagatc tctctcagtg atttcagagt cccgctctga 300
taccaattga aattctgata ctggggacag at 332

<210> 11912
<211> 354
<212> DNA
<213> Glycine max

<400> 11912
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actagtatct tggaattaca agaaacaagc ttgtgtagca ctatccacta caacagcaaa 120
atacattgaa attggaagtt gatgtgctaa atgtctctat atgaaacaac aacttgagga 180
cattgcggta acccttgatc ccattcctct aaaatgtgac aacataagtg ctattaatct 240
gtctaaaaat ccgggtcatgc attcttgaac taaacatata tagattagac atcattttct 300
aataaatcat gtataaaaag gagattgatg cattgagtggt gctgatagtg aaca 354

<210> 11913
<211> 332
<212> DNA
<213> Glycine max

<400> 11913

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 acccgtagta gtttgcaccg tactttcatg tcgtactttc tgttcgaccc caataacgtg 120
 tcaaagttgt tgagcaagct tagcgtggcg cagtgtctaca acaccatcaa gtcgttggcg 180
 tatgagacgg aggtgcgttt gcgcgacccc atgtatggct gcgtgggctt catcttgctc 240
 ttgcaacaat gactatgcga aatcacaaca aaggtacaca acgcgaagga gttatcaacc 300
 tacctcaacc ctaggccatg caggttcttt ta 332

<210> 11914
 <211> 227
 <212> DNA
 <213> Glycine max

<400> 11914
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 ggaattgctg agagcttcaa cattcaattt tgagcgtctc gatgtattac aggacttaat 120
 cagacattcg agttaaaagt tattgttgtt tgaatttgcg gagagcttca acattcaatt 180
 ccaagcgtct cgatatctta cgggactcaa tcagacatcc gagataa 227

<210> 11915
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 11915
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 tcaaacgaca ataacgtttt actcggatgt ctgattgagt cccgtaatac atcgagacgc 120
 tcgaaattga atgttgaagc tctcagcaaa ttcgaacgac aataactttt tacctcagat 180
 gtctgattga gacccgtcat atatcgagat gatcgatatt gaatgctcga actctgagca 240
 aattcaaacy acaataatga tttgctcgga tgtttgatag agtcccgtaa taca 294

<210> 11916
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 11916

agctttatca aatgtggcat ttgaggtaat taatgatata aacttttatt atttgagcag 60
agatttcgat ggacaaatta cacacagaaa atatgatttt gctaattatg ttaaattctt 120
aatttgaagg gactgctaac cgaaggtttc ctttggatcc cctctttggg tggteact 180
accattgctg ctagacaaag tggagctgga atttcttggc tttttccatt tgtggtaaga 240
aagatatctt ttgcttcata gttgaaataa taagttgtag ttgggctttt tcccccta 300
cctgtgagtc attatgatct ttgc 324

<210> 11917
<211> 325
<212> DNA
<213> Glycine max

<400> 11917
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aatctgtacc tgtcgcaagg gtttgtgggt tgtgctcttc tgctgaccac catacagacc 120
tttgcccttc catgcatcaa cctggagcaa ttaagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
tttccagcaa catatacaac cctggatgga ggaatcacc taacctcaga tgggtccagcc 300
ctcagcaaca acaacagcat cctgc 325

<210> 11918
<211> 322
<212> DNA
<213> Glycine max

<400> 11918
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tgtgctttga tgatggctat ttcccgctcc tagcttcaat tggagttatg tcttttacag 120
acttagtagt acatctgttg agtatgtaaa cagaagtgtg tactgcttca acccagaatg 180
tgtaggttag tcccttatcc ttgagcatcg atctaaccat tccataact gtgcgattct 240
ttttattgga cactccattt tgttgaggag aataagcgac tgtaagtagg cgctcaaac 300
ctttattctc acaaaatctt tc 322

<210> 11919
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 11919

agcttacatg aaacttecta ttgttatgtc ctcaccgtta cctaataattg ttgcaagct 60
 aaaacgttct ttgtatggat taaaacatgc accaagagtg tggtttgaaa agtttagcac 120
 aacactactt ggcttttctt tcattccaaag tagctatgat ccattcttat tctataaag 180
 gacctcaaaa ggaattatga cctccttgt ttatgtagat gacattatcg tctactagctc 240
 agatcaagag gctatcacta caatcaagca attgttgcac acaactttca acatgaaaga 300
 tcttgacaaa ctcacttatt tcttgggatt a 331

<210> 11920
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 11920

agcttggcga cactttttta agattgaatc ctataatgaa ggaggaagta agaaaagaag 60
 tgctcaagtt attagaggca ggccttatct atccaatttc agacagctca tgggttagtc 120
 ctgttcaagt tgttccaaaa aaaggaggga tgacagtaat aagaaattat tgaaatgaac 180
 taattcctac cagaacagtc ataggatgga gaatgtgcat tgattataga aagcttaatg 240
 aagccacaag aaaagatcac taaccacttc ccttaatgga tcaaattgctt gagagacttg 300
 cagggcaatc tttctactgt tttt 324

<210> 11921
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 11921

agctttgcta cgataaccac ttggactgga ctcaccact ggctgtcaga aatggggtaa 60
 atgattccag cttgtaagag cttggtcacc tcttttttca ccacatccag aatgacgggg 120
 tggagtggc actgaggttg cctcactggc ttatctccat cctttaaaag taccctatgc 180
 atgcaggtag atggtctaata accaggaatg tgtgctaaag tccatccaat ggctttcttg 240

agaactagcc acaacttctc ctcttgctca gcatcaaggg aggcatagat gatcactgga 300
aatttttctt tgtcctccaa g 321

<210> 11922
<211> 326
<212> DNA
<213> Glycine max

<400> 11922
agcttgtacg ctataatgat tatgattggg ctcaaaatga tgatgatcaa agaagtatta 60
atggatttga gtttttaagg gggaatccaa ccttcctgga atgaaaaaag cctcaatttc 120
ctttttactc gtgaggggca aaacccttaa aagtaacatt aggccttcgt cctgtaatcc 180
ggcttagaga attgtaaaaa gagttggaca tgtcacaaga cgatcagacc atcacctttg 240
gggataataa gtcaaccatt gctctagtaa acaacctcgc gtcccgatgat cgaagcaaac 300
atattggcac tcgttaccac tacata 326

<210> 11923
<211> 330
<212> DNA
<213> Glycine max

<400> 11923
agctttgatc ccaaagaagc ttgccatgac cattatcttc aagcccatca cttttcccaa 60
cacacaaaca aaaggggtata gaagaaccaa aactatggct cttataagcc cccctgcctc 120
aaaggccacg agcatgaaat atgggaacaa agaagaggat ttcaacaacg cgttttcgac 180
ataaaaagatc aacgtgtgat cgttgaggtc tgatcggtgg attaaagagg ggaatttcag 240
gtatttgta aactgtgttg gtgcaccga aaaagaattg ctaatgggtc tgtggaaacg 300
gacgaggttc ctgagttgcc taaagagaaa 330

<210> 11924
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11924

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ggtgcacaag catttaaaact tgatacaact ctgaaattat ctgatgtaaa aggaacagat 120
ggcaagacta cactcttaca ttntgttggt ctagagaata tccgctccga gggcataaaa 180
gccatcagaa aggcaaaaaga gagccagaaa tcgtctagta ttaaattgga tgaccttcac 240
gatagtacc gagaaacaga agatcgctac catgaaatcg gtcttcatgt ggtttcacga 300
ttgagcagtg aacttgagaa tgtaaaaaaa gcagcaatta tatatgctga cagcttaaca 360
ggaactact 369

<210> 11925
<211> 326
<212> DNA
<213> Glycine max

<400> 11925
agcttctcag atgtcattgg tatcattgac cttgtggcag caagattgcg tccgtgctc 60
ccttgctcc gaacaccatc tccatgttct tcccagaaa caagcttatt ctttcttggt 120
ggcaatacca tattagacac cttttgaaca ttttgtccag atttctggtc tatctcttct 180
gctttcctac ctttttcttt tggtttaaca tcagccaccc ctgactcttc actttcagat 240
aaggcagctg aagatgaagg atcacctttt agtttaattt gctgaggaga actgccagcc 300
aagcgtctgg caaattctaa cccaag 326

<210> 11926
<211> 328
<212> DNA
<213> Glycine max

<400> 11926
agcttatgac cattttaatt tttttttagt ttccattggt caataaccaa tgtctcgata 60
tattatgcac ctgaatcgga aatccaagtg aaaagttatg accatttgaa tttctcgagg 120
gattttgttg atcaattttc agacgtctcc atatatggtg tgcctgaatc ggaccttcgt 180
gtgataactt atgaccattt gaatttcttg agagatttcg ttgttcaatt tctagcgtct 240
cgataaagga tgcgcctgaa tcggacatcc aagtgaaaag ttatgaccat ttgaattgct 300
cgtcagcttc cgttgttcaa tctccagc 328

<210> 11927
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11927

tagcttcaca aaagtttata ttgcttgaaa caagcacctg tgcagtgggtg caagaagttt 60
 aatgagttaa tgagcaactc gggattcaaa agatgtgaca tggaccattg ctgctatgtt 120
 aagaaatata ctaatagtta tgttatcttt gtcgtgtatg ttgatgacat gttgactgtg 180
 ggatctagta tggcnnaaat taacaagtcg aagcatcagt tggcagaaaa ctttgaaatg 240
 aaggatcttg gtccagctaa acaaatcctt ggtatgagaa ttcttagaaa cagatcataa 300
 cgaatcttgt agctgtctca cgagaaat 328

<210> 11928
 <211> 255
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11928

tagttcaagt ggcactcttg tgcacacaat atctttcggg ccacaggccc aaaatgtctg 60
 atgttgtagc catgcttgaa ggtgatgggc ttgcagagaa atgggaagcc tcacaaagtg 120
 ctgacactac caagtgcaaa ccacaagaac tctcttcac agataggtat tctgacctca 180
 ttgatgactc ttctttgtta gtccaagcca tggaactctc aggccctatg atgtgaacct 240
 tacggngcgg atcgc 255

<210> 11929
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 11929

agcttcaaca tcaggattct tttaatggct atggcggata tcaccatgac cgttaattaa 60
 gaaaaaaatt atatttaagc atctaattaa agtaattatt tttagggata taataagaac 120
 atttatctat aatgcacctt attaaagtaa ttatctttag agatcatatt ataatatata 180

tctataatgt gtctaattaa aataattatc tttagagatc atattaaaat atatatctat 240
 agtgtgccta attaaaaataa ttgcatttag aagatctata aatagttgga gtttgaactc 300
 tcgggatteg aaattcatta tacattttac 330

<210> 11930
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 11930

atctcaagac taactatgac aggatttttc ttgaagaaat agctcaagcg gcactctggt 60
 gcacacaata tcttccgggc cacaggccca atatgactga tgttgtaacg atgcttgaag 120
 gtgatgggct tgcagagaaa tgggaagcct cacaaagtgc tgacactacc aagtgcaaac 180
 cacaagaact ctcttc 196

<210> 11931
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 11931

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 gattcctttg tcatttcctt tggaatcttg ttcataatgt ttcataatgt ctaaagaatc 120
 tgcagtgtca tctagcatat tctttcttga caatatatca ttagattcat caaaggtaac 180
 atgaatggat tctctgatat acatagttct tttattatat atcatatatg ctttgctttg 240
 taatgaatat ccaagaaaaa taccttcacg agattttgca tcaaattttc ctagattatc 300
 tttaccatta ttaagcaca agcacttgc 329

<210> 11932
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11932

gcgcctgaat cggactgtgc tttgagaaga tatgaccatt tgaatntctc cagagctttc 60
 gttgttcaat ttctagcgtc ccaatatatt atgcgcctga atcggacttt cgtctgacaa 120

gttattacca tttgaatttc tgcgagagcat atgttggttca atttcgagcg actcgatata 180
 ttatacacct gaatcgggca tccgtgtgac aagatatgac catttgaatt tcttcagagc 240
 tttctatggt aatttcgagc gtgctcaata tattatgcgc ctgaatcgga ctttc 295

<210> 11933
 <211> 446
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 11933

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 aatttctgga gagattccgt tgtgcaattn tgagcgtctc gatataattat gcgcctgaat 120
 tggacttccg tgtgattagt tatgaccatt tgaatttctc gagagcttcc ggtgttcaat 180
 tccagcgtc tccgtatata atgcgtcaga atcggacttc cgtgtgacaa gttatgacca 240
 tttgaatttc tgcgagagctt tccgttgctaa atttcaagcg tcttgaatat aatgctcctg 300
 aatcagactt ccgtatgaga agtgatgacc atttgaatct ctcgagagct tccgtggatc 360
 aatttcaagc tgctcgaata tgatgccttg tatccgactc cctgtgaaag ttataacctt 420
 taattcccaa agcgcgtttg ttaata 446

<210> 11934
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 11934

agctcggaat gtagtcatac cacacaaaat atatatatgt atgttgaggt agaaagataa 60
 cttagatatg catgtatgta aacaaaaaca cacttcacaa aatatatata tatgtatgtt 120
 taggtagcaa gataccttag atatgcatgt atgtagcaaa aagatacctc acaaaatata 180
 tatatatatg tatggtagca agataccttg gatatgcatg tatgtagcaa aaagatacct 240
 cacaaaatat atatatgtat gtttaggtag caagatacct tggatatgca tgtatatagc 300
 agaaatacct cacaaaaata tacacatgtt taggtagcaa aatacctcat gaaaaaaaaa 360
 aaaagcaaac tagagaaaga aatacacaaa tgataatgat caaaaaaaaa 409

<210> 11935
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11935

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cttgtacaag aatgaagctc taataccact tgttagacaa gtggcctcag atatcttaag   60
aagggtggggg ggttgaatta agatattgca aactatttcc ccaattaaaa ttctatttta  120
atttcaatgc aagttccaag ttcccttaaa aatgaacttt taaatgatga ttcaaactaa  180
acaatctaaa tacaaatgta aagcaataat aaataacaga gtttaaggga agagaaagtg  240
caaactaaag caatctaaat acaaatgtaa agcaataaat ccctaagcaa cccgcttgag  300
agtttcacta tcttgtaaaa tccttttaca agttctgaac cacacaagga caaatcctcc  360
tttgtgttca gatttcttta caacaagaga ccttcagtct ctcaatccct tngagaataa  420
gatagaagag aagaataaat ctatctcgaa agagatagat tgtacaactc gagcactcaa  480
ttaattcctt attgaat                                                    497

```

<210> 11936
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11936

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caaactgaac ggaccattca gtcattggag gaccttataa gagcatgtgt cttatagcag  120
aagggaagct gggagggttt tcttccattg atagagttca cttataacaa cagttttcat  180
tctgccattg gcatggctcc ctatgaagct ttgtatggta gaagggtgtag aacaccctta  240
tgttgggttag agcccgagga aggcctcaca ttaggaccag aagttgtaca acaaaccact  300
gagaaagtta agttaattca cgagaggatg acaactgctc agagtaggca gaatagttat  360
catgataaga ggaggaaaga tctacaattc gaggttggcg atcatgtatt cttgagagtc  420
actccatgga ctggggcttg gtgagcattg aaatcccgac nactcacacc tcgctttatt  480
ggtcctttcc agattctta                                                    499

```

<210> 11937
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11937

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atagaataac tatgacctct ccagcaacaa gtataatccc agatggagga atcactctaa 120
ccttatatgg tcgaatcctt cacaacagca acaacaacaa cagccttatt ttcaaaatgc 180
tyttggccca agcagaccat acgttctctc accaatccag caacaacaac aacaacaaca 240
gccccagaaa caacaaatag ttgaggcccc tccacaacct tcccttgaag aacttgtgag 300
gcaaatgact atgcaaaaca ttcagtttca gcaagagacc agagccttca ttcaaagctt 360
aactaatcag atgggacagt tggctacaca gttaaataca caacagtccc acaattctga 420
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<210> 11938
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11938

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aatccttaga ggacctcttg agagcctgtg tcttatagca gcggtgtagt tgggatgggt 120
tcttaccctt gatagagttt acatataaca atagttttta ctccagtata ggtatggcac 180
cttacgaggc gttgtatggc agaagatgta cgacacctct atgttgggta gatctaagtg 240
agagcattgc cttatgacct gaggtgggtc accagaacac tgaaaaggtc aagttgatcc 300
aatagaggat gagagtagcc canagtaggt agaagagcta ccatgtanga atagatagga 360
ccttgaattt gttgcagggtg atcatgtatt cctgacagtc actccatgga ct 412
```

<210> 11939
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 11939

atgcttagtt aacctggtaa cccagctatc gttgaatcag aaatctatac ctgtcgcaaa 60
 agtctatggt ttatgtctct ctgccgacca ccacacagat cttttccctt ccatgcagca 120
 acctggagca attgagcagc ttgaagctta tgctgcaaac atttacaaca gacctcctca 180
 acctcagcag ctaaatacaac cacagcagaa caattatgac ctctccagca acagatacaa 240
 tcccggatgg aggaatcacc ctaatctcat atgggtctagc cctcaacaac aacaacagca 300
 gctgtctcct ttctttcaaa atgatgctgg cctaagcaag ccatacatc ctccaccaat 360
 ccaacaacag caacagcccc agaaacaaca aacag 395

<210> 11940
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11940

tcttcaactt tgtattcaag tttttacatc aattcttttg aatcttacta gtcaaaaatt 60
 aaaataatat taaaatcctc attatttcat taaaaacaac attatagtag aggaattgta 120
 atcattctta agtcaaaaatt gactatcaat taaactcaaa ctctgcagtt atcactcatt 180
 attttcaaac aacttgagct tgtgagaagt ttactgaac ttgatatatt tctatctaca 240
 taggctatgc cttggtgcat ggtcagacca tggtgaaagg actggtggat tntatgcttg 300
 caatcgttat gaagcagcta aacaagaggg agtggttaagg gaattagaaa tactctactt 360
 cattggttca gggtcatgat accataacct actgccctg catatatattg ataacgatat 420
 ttcttctgac taaatgttgt gcatgtagta tgataaactg 460

<210> 11941
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11941

actcgcatg ggacctgana tgttggtccc actcagatcc aacaatgtca aagatctcaa 60
 actagtccaa ttactaggta tcccaccact gatatcatta cctcccaacc ttatctcaac 120
 aagagaatcc aactttgcaa cagaaggact caaagtccca ctaatattaa acttttccaa 180

aagaatcatg tccaccttcc catccccatt gcaccttata cccaaccatg gcccatcaca 240
 aggggtcattc ccactccact catcaaccaa aatccgagga taccccaacc ctccaagaaa 300
 ctccaacaac accatcacct caaaaccaca cataaccccg ggtttggcca cacaaaattc 360
 attgtttctca aagctcactt tactcngctg cgaaatccgg atcggaccca cganagtggg 420
 gtattcanat caatctatcc aatttcattc a 451

<210> 11942
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11942

gaactacaga gatttatattc taattctaaa ccacaaaatc aaactaatgt tatgcaggat 60
 tacaacgcaa aaatttcata ttttggcttg gcgaaattag ggccttcggg tggagattca 120
 cacgtgagta cgaggatcat gggaacatat ggctatgctg ctccagaata cgttgcaaca 180
 ggtgaacatg tcattctatc taaacacata tatatagaga tggtttgtga atatgctatt 240
 tgaagttgaa actaatcgtn ttatgattca acatgacacg ctttcgtgaa gagtgatggt 300
 tatggatttg gtgtgggtgct gctagatatg ctgacatgga tg 342

<210> 11943
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 11943

ctgcagctgg acttctgtgt ttgagaacct cttcttcctc aggtgtaccc aaaccaatc 60
 acctggttca agcacgactt tctttctgct tttgttggct tgccttgcat agcttgcat 120
 attcttttca atctgaacct tctactagctc atgcaacttc ttcacatact cagcttttagc 180
 ctgtgcattc ttatgcttaa acatatcact gttagacata cgcaacaaat caagacgagt 240
 caaaggatta aatccatata ctatctcaga tgggtgaacaa ttatatgtgc tgtggacagc 300
 ccgattataa acaaactcaa catg 324

<210> 11944
 <211> 488

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11944

 ggatccttaa gcacctgagg catgcaagct tgtttaccac atgttgagtt ngcttacaat 60
 agagttgttc atagcactac taattgttct ccttttgaag ttggttatgg ttttaaccta 120
 ctaactcacc ttgatctttt gtctatgcct aatgtttcta tttctaagca taaagggtcaa 180
 gcaaaagcgg actatgtgaa gaagcttcat gagcgagtca tagatcatat tgagaggaaa 240
 aataaaagct atcttaaaca agccaacaaa tggagaaaaga aatttgtctt ctaaccggga 300
 gatttgtttt gggagcaccat gagataagaa aggtcttcgg aacatacgaa atcaaagctt 360
 caaccaaggg gagatggacc attttcagtg cttgaaagaa tcaatgacga tgcttacaaa 420
 gttcagctac ccagggagta taatgttagt cccaccttca atgtatctga ctcatctctc 480
 tttgatgc 488

<210> 11945
 <211> 342
 <212> DNA
 <213> Glycine max

 <400> 11945

 ttaaatatcc tcagtcataa cagcctcacc ccatatatat ttgggaactt tagtagaaaa 60
 gagtaatgcc ctacccacct ctataaggtg tgtattaatt ctctctgcac tcccattttg 120
 gtggcgggtgt attaacacaa caactatgat agacaatctc attttcaaga aacaaacttc 180
 ctagggttgc gtcaaaatat tgcateccat tatcactact aactacttgt atattaacac 240
 gaaattgact ttgcaccacc ataaggaaat ctctgacacc tagtttacct acagatcttt 300
 cttataatat gtacacccaa caaagcctag tgtgggtcac ta 342

<210> 11946
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 11946

 ctcttacagg tgactttgag cgtttgtgtc cggaggagta cccaacattt cctgattatc 60

tctctcgagt attggccgcc ctccatccac ttatcagaga tggatgaagat ggcatgacg 120
 tgcattgtgac gtaaaaaata cttcgaactt taaatgcaag gtctgacttc attggtacca 130
 acattgacga aaacgccgat ttaaggacca tgactattga gcaactcatg cyttccttac 240
 ttgectacga tgatgctc 258

<210> 11947
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11947

ggatccttaa tcacctgccc ctgcagctgg attccttttag tagganatct attcttcta 60
 agatagagcc aaaccagtc accgtcatta agaactaact cttttcttcc tctattgcct 120
 ttagttgaat acacctttgt ttggttctct atttggttct taacctttc atgcaacttc 180
 ttacaaaact ctgatctaga ttcccccttt ttatgtataa aagaagtgtc tagtgggagg 240
 ggaatgaggt ctaatggtgc taggggattg aaccataga caacctcaa aggggattgc 300
 ttggtggttc tatgaacccc cctgtttag gaaaattcta catgaggaag atacttatcc 360
 caagacttat 370

<210> 11948
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11948

agcttggtgt aggtttcata atatgaaatc tgaatatata tgtgcacgga cgcattgtaa 60
 tgcattacac acatatggta atcgattacc atacagcaat gttgtcagac ataactgctt 120
 gtaatcgatt acactattat ggtaatcgat taccagaggt tatttgagcc aaaaaataaa 180
 aacaaaaggc tttctaggag agaagaagtt ttgagttact atcacatac tttttcatga 240
 gaaatatata taagaatact ttatgaataa ttcttaatca tgtaattcac atatcatatt 300
 atgcacgaac attaaaacat gtaaataatc aattntatca aaacaatcaa cacaagtatg 360
 aagagtattg attntattga aatatatgaa tgaatatttc atgcaaataa gatgaaatca 420

atcaagaaca tctactcatg atttcaaaca atcagaacac aaata

465

<210> 11949
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11949

tatagtctga attctgggtc ctcttaggga ctnatacaat atatccgctg gctgggcatt 60
agaaccaatg aactcgatga caatctcctt ggacagaagc ttctctcgaa tgatatgaca 120
atcaatctct atatgcttag tcctttcatg agagactggg tttgaggcag tatgaagagc 180
atcctgatta tcacaatgca acttcatttg caactcttca caaaacctca attcttgcac 240
aaattgtcaa atccacatga ggtcacacgt taccatagcc atcgatcgat atcaggcttt 300
gcact 305

<210> 11950
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11950

agcttatccn cataagagtg cagaacagct ggtagtcat cattgattat aggaggctaa 60
tccaggtaac caaaaaagat ctttttcccc tgccattcat tgatcaaagc cttgagcgct 120
tggcaagtat gtctcattac aattttttta tggtttttct ggttatttac aaattcatat 180
tgctcctgag gatcaagaaa acaccacatt cacctatccc tttggcattt ttgcctatag 240
gaggatgccc tttggcctat gcaacgcctc tggtagcttc caacgggtgta tgcttagcat 300
tttcaatgat tttttagaga gttgcataga tgtgtttatg gatgatttta ctgggttatgg 360
atcctctttt gatgcattgt tggatagtct agatagagtt cttaatagat gcattgaaac 420
taaccctgtg ctgaattttg aaaatgtcac ttcatt 455

<210> 11951
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 11951

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atgcctgggt aacctggtaa cccaactggc catgaatcaa anactctgcac ctatcgccag 60
actctgtggt ttatgtctct ctgccgacca ccacactgac ctttgccctt ntatgcaaca 120
atctgaagca attgaacaac ctgaagctta tgctgcaaac atctacaaca gacctctca 180
acctcagcag caaaatcagc cacaacagaa taattatgac ctctccagca ataggtacaa 240
tcccagatgg aggaatcatc ccaaccttag atgggtcaaat ccttcacaat agcagcagca 300
acaacaacaa ccttattttc aaaatgttgc tggcccaagc agaccatacg ttcctccacc 360
aatccagcaa caacaataac aatagcccca gaaacaacaa acag 404
```

<210> 11952
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11952

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agcttcngct tattagtgc catctccttc aataatttag catatcttgg aatttgcttt 60
attgcatcca gtagaggat gtctacctct acttttctaa atgtttccaa gatctccttc 120
tttggtctct ccattttttt gatggaaatt gctcttggag ggaatggaag agggatatgt 180
tgcttctctt tagattcacc tgcatagaaa ttggtaggt tcttactctt taaatttttg 240
tcatcatctt tttctggagt agagagaagt tgggcaggt catttgcaca tgaggaagat 300
gttgcctggt gaggttcttg aactgcttt cccgacctca atgcagtggc actcacatat 360
ttgggattct ggacagattg agaacgtaat ctgtcacaat tctgggactg ttgttgatta 420
act 423
```

<210> 11953
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11953

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ntggcaacac aaggtgagag gctttattgg gaagtgtgtt ggggaggagc aatctgcttt 60
caccgaaggg agatcgattc tggacaatgt gctcattgca gtagaaatca ttcactatct 120
```

taaatccaag accagagggg gaaatggata agtggcctga agattgatat atgtaaggcc 180
 tatgacctcg ttgactgggg tttctagatg caatccttgt caagttgtga ttttgcaatc 240
 aatggaccga gtggatgatg atgtgtgtca aaactgttta gtatgtagtg gtagtgaatc 300
 atgacaaggt tgatcctatc tcccctgaga gatctctggc aaggagatcc cttctccctc 360
 ttttatatat ataatttttag ctcaaggtct taca 394

<210> 11954
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 11954
 agctttttat ccaactgggt taaggttcaa gaactctagt gatggtaaag ctttctcctt 60
 ttctttctct tttgctttga ttatattccc tgagtatgaa aagttaggag ggcattggtct 120
 tgcttttaca attgcatctt ctaagaatct caaggctctt ccaagtcagt atcttgggtct 180
 tctaaactca actagcacag ggaactcctc caaccacctc tttgctgttg agtttgacac 240
 tgcccaagat ttttagtttg gggacattga tgacaaccat gttggaattg acatcaatag 300
 cttggtctcc attgcttctg cacctgtatg ttactacacc gggggtgatg ataattt 357

<210> 11955
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 11955
 tccccgtggc ttctttgtga agctttctca agaggcttct ttgagaagct agatccttat 60
 ctaccacac ccactatatt actaaattaa cctccttaaa aataattacg gataaaataa 120
 cacaacaaat acagtcaagc atcaaacata attattaata tatagatata tatatcaggg 180
 tgttacaact ctcccacct tttagaaatt tcgtccccga aatttacctt actcaaacat 240
 ggatgggtga gcttctcgca tttgactttc taattcccat gtggcatctt ctctgtgtgc 300
 acctccccag atcaccttga ccaacggaat ctctttccct ctaagggtgtt ttgttcgctt 360
 a 361

<210> 11956
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 11956

```

tcaactctcat tcccttctcc acgctgacca catagtagag tctatttcat caacgaatat   60
gatagaaggt gcactttcgc gtgccatttg gaaaagattt gagaccagct tttcactttc  120
tcccatccac tttgaaacca ggtctgacga agaaacactg gtgaagaatt aaaaagttaa  180
aacatgtagc aaaaaaatgc ccacctaacc taagcactta catttgcgac cttatttttc  240
aaacaaaatc actgacaagc agaactatta gactcagaaa ttgaaaatgt taaaaataac  300
aatgttgatg attatgtgaa atcatccata tgcacacaca ttcattccacc aaactcagtg  360
cgtgtttgga ttaacattga atgattcaaa accacat                                397

```

<210> 11957
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 11957

```

agcttattca catagtcacg actgtttctt atcttcttta tgcataaaaa cagaaacatt   60
acgcatacgc aaaagatcac gaagacgcag tgggttaaaa ccataaacia cttctgaagg  120
agaacaatta gtggcgctat gaacagcttt attgtaagca aattcaacat ggggtaaaca  180
agctacccaa gtttttaagt tctgtctgac aactgttcta agcaaagttc ccaaagggct  240
attaacaact tccgtttgcc cattacgctg ggggcgac                                278

```

<210> 11958
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 11958

```

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca   60
cccgacgaag aactggcaa aaactaatct tctctttatt ggacaaagtt tggcaggctg  120
ggggcaagta aattttcttc ccacaaacc ttggatgcaa ctgcgctctt atacccatat  180
cagctaaatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg  240

```

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300
 cgtcaagatc a 311

<210> 11959
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 11959
 agcttcatgg gagagtcaaa gatcaaattg agaggaaaaa taaaagctat gctaaacaag 60
 ccaacaaagg aagaaagaag gttgtcttcg aacccggaga ttgggtttgg gtgcacatga 120
 gaaaagaaag gtttccggaa cagaggaaat caaagcttca accaagggga gatggaccat 180
 ttcaagtgtc tgaaagaatc aataacaatg cttacaaagt tgagctgccc ggtgagtata 240
 atgttagttc caccttcaat gtctctgatt tatctctttt tgaagcagat ggagaattct 300
 atttgaggac aaattcttct taagaggag agaatgatg 339

<210> 11960
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 11960
 ttgaatgctc tattcactgg agttgacaag aatatcttca gactaatcaa cacttgcaca 60
 gtggccaaag atgcatggga gatcctgaaa accactcatg aaggaacctc caaagttaag 120
 atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180
 tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgcac tgccttggga 240
 gagaggataa cagatgaaaa gctggtgaga aagatcctca aatccttgcc taagagattt 300
 gacatgaaag tcaactgcaat ataagaggcg caagacattt gcaacatgag agtggatgaa 360
 c 361

<210> 11961
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 11961

agcttttctca cgcacatcag tccacttaca ccacattctt ttgacaagt tcattttaaag 60
 gtgcaacaag taaactgagg ttcttcacaa atcttctata aaaagttgct aaaccataaa 120
 aaattcttac cttattagca tttttaggta caagccattc cctaattgcc tttaaccttt 180
 cttcatccac acttattcct ttgagctaa tgataaaaact caagaacaaa acatattcaa 240
 ggcaaaaaga acatttttat aagattggca tacaatttat tttctctcaa aacattaaaa 300
 acaatgtgtt cctctaattgt ttgctatag atcaaaatat catcaaaata caccacaaca 360
 aatttcccaa tgaagcacac aaaaca 386

<210> 11962
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 11962
 catgcaagct tactactaga atagattctg ttatagtaag ttcgtctaata taaaatttta 60
 ttgtatttat attctgataa tcattagcaa tgagtgtctat tactttggta tcttagatta 120
 gtattaacta gaaatagttt tgtgcaataa atttattctt agtgataaac aatattaggt 180
 ttaggaaaat atatctatta tatttgtatt ttgataataa ttaataatgt ctgttattac 240
 ttccctattt taagttagct ttacttagaa aaagatatgt tccatcaatt tattttc 297

<210> 11963
 <211> 189
 <212> DNA
 <213> Glycine max

<400> 11963
 aatccccaag taggattctg tctcaagaca caccgtaaaa ttcttgattc agagcgtgcc 60
 caaaatggtc taattccaca taacaatatg tatgatataa ccccaaattc ccataagtct 120
 acttcaacac tgtaagaact aaggagcact tcatgagcaa cgctatatgc aactgtcaac 180
 aatgtcaat 189

<210> 11964
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 11964

agcttggcaa caagcaatga acgctttggt ttcttgagtg gctcctttgc agagaattat 60

ctgacagagg agctcaacat tcacagatcc aggcttggtc ctctcaactc accatcataa 120

tatgaaacgg ccttgaaaga tggctctgct gatgggggtg tcaactgcaat aatagatgaa 180

cgtgcataca tggagctgct ccttgcaacc agatgtgaat acgggtcttgt tgggcaagag 240

ttcaccataa tgggttgggg ctctgcaaga gcattatcca tctcctcttt ttgaaattca 300

caatcagata tatcacatgc attctcccaa atattaaaga tccggttttc aataaatcta 360

agaccatcct ttcta 375

<210> 11965

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11965

ngcattattt tatttattta ttttgggtgac aaatatattt ttgcttgagg tctgggttatt 60

acgatgaagc aagaaatggt gcccaatctt cacatcaatt tgctcctttg gtacatactg 120

tggtcactac ttatttacta atttatgatt taatctttct taataattta cttatttatg 180

acagctggca gagtggatta ataaaggagg gatggtacct gaagagattg cagctgccgc 240

atcagaggaa tgtgaaagaa tgttgattgg cattacccat tgacttgatga aatccaagta 300

cacaaaaaat tcccacaaaa gatatatgaa ataatgttta ag 342

<210> 11966

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11966

ngaagacaag cctgaggaag aagggtgtga tccaactggt tacaaacagt tggtaggctc 60

actgagatac ctctgcaata gcagaccaga tatctgttat gccgtatgcg tgctgagtaa 120

attcatgaat aggccaaaga aatctcattt cttggctgtc aaaagggttc taatgtatgt 180

gaagggaact atgcagtatg gtgtgatgtt tccaagtaat gttgatggtg ctgagatgaa 240

attgattggt tactcacatg ctgattgggtg tggggacagg acatatatga gaaacacatc 300
 tggctacttg ctcaaatttg tggagctgct g 331

<210> 11967
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 11967
 ttcgagaaat tcaaatagtc ataacattta actcggatgt caaatttcgg ggcataatat 60
 atcgcgacac tcgaaattga acaacgaaag ctctcgagaa atttaattgg tcataacttt 120
 taactcggag gtccgattca ggcgcataat ttattaagac gcttgaaatt gaactatgaa 180
 agctcttgag caattcaaat ggtcataact ttccacacga aggtcagatt caggtgcata 240
 atatatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa 300
 cttttaactc ggatgtccga tttaggcgca tcacatatag agacgcttga aatcgaacaa 360
 cggaagctct cgagaaattc aaat 384

<210> 11968
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 11968
 agctgacgcy tgcgcgcttc cttgagaaga tgtgtataga agctagagct tagctacaca 60
 cacctctcta atagctaagc tcacctcctt gagatgagaa gctagaactt aactacacac 120
 cccgtataat agctaagctc acccccatga caaaatacat gaaaatacaa aaaaagtccc 180
 tactacaaag actactcaaa atgactcgaa atacaaggct aaagccctat actactagaa 240
 tggccaaaat acaaggccta aacgaaggaa aaaaaaccta ttctaattatt tacagagata 300
 agcgggctca tacttagccc atgggctcaa aatctaccct aaggctcatg agaaccctag 360
 ggccttcctt tggatctctg gcccaatcta cttggag 397

<210> 11969
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11969

tgtanaaaat tattaaatat tataatgttg ttggattgta tnaatgtgtt tagnttaaata 60
gattaaanat gttgttttaa agtatgaagg tnattaagnt tgtgaattaa tttaaaaaat 120
ttttgtaata nagtatgaaa agtataatth attaaattat nnnntaaaaat tataattgaa 180
ggacaaaant tatagtatnn agtaggtggt tttagtgtta tnnaattaaa tgttagagtt 240
atatatnagt aatthttttta ataaatgttt 270

<210> 11970
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11970

agcattgatt tcctttgttc cggatacctt tcttttgtca tgtgcaccca aaccaatct 60
ccgggttcga agacaacctt cttctctcct ttgttggtt gtttagcata gcttttattt 120
ttcctctcaa tttgatcttt gactctctca tgaagctgct acacatagcg ggcccttgct 180
tgaccttctt tacgctcaaa aaaagaaaca ttaggcatat gcaaaagatc aagaggagtt 240
agtgggttaa aaccatacac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300
ctattgtaag caaatct 317

<210> 11971
<211> 400
<212> DNA
<213> Glycine max

<400> 11971

cgaggtgttg gatgtgtcga ggaatacgtt cgggtgggcat gtgcctatgg agcttgggaa 60
ttgtactgag ttgtctgtgc tgcttttgct taatcttttt agttcagttc cggatgttaa 120
tggtactttg ggggactccg ggggtggagca catggttgct atgaatattg atgagtttaa 180
ttacttagaa ggcccgggtt ctgttgagat tatgaacctt cctaagctga gactgctgtg 240
ggcgctatg gcgaatctgg aaggcagttt tatgagcagt tggggcaagt gtgatagcta 300
ggagatgcta aatttggtc aaaatgatgt cactggggat tttcctaate agcttgggtg 360

ctgcaagaat cttcattttc ttgatttgag tgccaataac

400

<210> 11972
<211> 396
<212> DNA
<213> Glycine max

<400> 11972

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acctcctgc atttgataa ttatcttcat ctttgtaaag cactcaatc atgcgcacaa 120
gyttgacaac acgcaaaaga aaattcattg gcacttcagt aggattaagg catgcctcat 180
tgatgtcctt ccaagcactc ttaaccatct caagtagttt attaatggca tcttgccctg 240
agggtgttatg ttgcttcata tagctttcaa tgettgtatgc aacgtgtctt ctttctctgct 300
caaactttgg ggaaaaaat taatactaaa gaaaccaatg tttaaccctg aaagtaaaag 360
ttggtattac caaaattata aggtaaatta aatgtc 396

<210> 11973
<211> 297
<212> DNA
<213> Glycine max

<400> 11973

agcttgtgcc tcttcacgtc tggaatatga atgtatcata tagatccaaa gacccttatg 60
tgctttgctg atggcttctt cccgttccaa gcttcaattg gagtcttgct ttttacagac 120
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccaaaatgtg 180
ttaggtatgc ctttctcctt aagcatcgat ctagccatct tcataaatgt gctattcttt 240
ctctcggaca ctccattttg ttgacgagaa tatgcaactg taagttggcg ctcaatg 297

<210> 11974
<211> 366
<212> DNA
<213> Glycine max

<400> 11974

tgtaatcttt ggatccttga agatatctta acactttctt tgcaactgac taatgctcta 60
ttcctgaatt actttgatat attccaagca ttccaaccac aaatgccatg tcaggtcttg 120

ttcacacctg ctcatacata atgcttttcta caatggaagc atatggaatg tttctcattt 180
gttccctttg aagcttattt ttaggacatt gattcaaact gaatatatca cctttcacaa 240
taggtgtcat gttgggtgaa caatcttcat gcaaaacatc tctagaactt tgatagtatt 300
ggccctttga gagaacccga gaataccttg atatcagttt ctatggatct ctatgccaat 360
gacata 366

<210> 11975
<211> 271
<212> DNA
<213> Glycine max

<400> 11975
agctttatgc aagtcaattt tcaggaggca tctcggagag gatcttttcc gggcatattt 60
gcacaaaatc tcttgaacta ggaagatgtt gtccatcatc tttctgttct taatgaaagc 120
agtttgagtt tccccaataa tagtctcaag cactggggct atgcggttgg ccagaatttt 180
agatacaatc ttgtataaca aattacagca agatatgggt ctaaaatggg taacctggga 240
ggcctgatca tgcttaggaa taagcgcaat a 271

<210> 11976
<211> 269
<212> DNA
<213> Glycine max

<400> 11976
agctttgttc taattcaaat gacaataatg atttgctcgg atgtctgatt gagtcccgta 60
atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgagtcccg aatacatcga gacgctcgaa attgaattct 180
gaagctctga gctaattcaa acgacaataa ctttttgctc ggatgtctga ttgagtctcg 240
taatctattg agacgctcga aattgaatt 269

<210> 11977
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 11977

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atatatctac acgctcgaaa tttaaaaccg aagcttgtag caaatcgaa cgacaataac 120
ttttactcgg gaagtcggat tgagtccegt catatatcga gacgctcgaa atttaaaacc 180
gaagctcgta gcaaattcga acaacattac cttttccctc ggaggtccaa tggaggcccg 240
tactttatca gaaccc 256

<210> 11978

<211> 260

<212> DNA

<213> Glycine max

<400> 11978

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gtatatcgag cgctcggtat tgaaaacaga tgctcataga aaattcaaac aacaataaat 120
ttttattcaa atgttcgatt gtgtcccgta atatatcgag atgtcaaaa ttgaaaacga 180
aagctcgtag caaatgcaaa ccagaataac ttttaactcg gatatccgat taagtcccg 240
aatatatcgt gacgctcgaa 260

<210> 11979

<211> 258

<212> DNA

<213> Glycine max

<400> 11979

agcttttgtg aaattcaa at ggtctaaact tttcacacgg aggtccgatt cgggcgcata 60
atztatcgag aactcgaaa ttgaacaatg caagctctcg agaaattcaa atggtcataa 120
cttttcaatc ggaggaccga ttcaggcgca taatatatcg agacactcga aattgaacaa 180
cggaagctct cgagaatttc aaatggtc at aacttttcac tcggaggtcc gattcaggcg 240
cataatatat cgagacgc 258

<210> 11980

<211> 242

<212> DNA

<213> Glycine max

<400> 11980

aatccctggg cttctttgcg accatatggg catgaggtcc atggccatca aaaacaccac 60

agaaaacggc ggccttggtt gaagagaaat tatcccagag aagcatggca tcttggtga 120

tccctttgcg accttgctta cagaacaagg aagcaacctg ggacgaacag ttcaagaata 180

atctgccagg aactctgtgg agccgcattt ccatgttata atcagaggca gttctggaac 240

tg 242

<210> 11981

<211> 262

<212> DNA

<213> Glycine max

<400> 11981

agctttgagc caactcaaac gataataact ttttactcgg atgtctgatt gagtcccgta 60

acatatcgag acgctcgaaa ttgaatggtt aacctctgag ccaattcaaa cgacaataac 120

ttttttctcg gatgtctgat tgagtcccg t aacatattga gacgctcgaa attgaatggt 180

gaacctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240

taacatatcg agacgctcga aa 262

<210> 11982

<211> 262

<212> DNA

<213> Glycine max

<400> 11982

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taaaatccca gatttcataa ttaggggttca tgcataattg ggagaaaaga aacctttctt 120

ggagaatcat aattttcata acttatgctc taataccaca tgtaaatttt aaggatttct 180

tagattaaca attgtaggaa accaatagga tcttgaaacc tatgattctc acaaacaatg 240

gataaacaat gcgtattttt ct 262

<210> 11983

<211> 260

<212> DNA

<213> Glycine max

<400> 11983

agctttaaca ttaattaaaa gctcattggt gcaggggcaa gcactttcgg taattttgat 60
gcatgtgact gaacttgctc caatttatat gaaataaaat aaatgcattc tcaggttttg 120
tttgcgtgaat gctacagget ttgcaaaaact tttttgctgc tttagtctat tctgcaaata 180
ctagttttga ttctctgctg gagtcactac ttgctgtgc taagccttct ccacagtctg 240
gtggcattgc taaacaagct 260

<210> 11984

<211> 262

<212> DNA

<213> Glycine max

<400> 11984

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taattatgac ctttcaagca acagatataa tctaggttgg agaaatcatc caaatctgag 120
atgggcaagt cctccacaac aacaacaacc tgacctctct ttccagaagg ctggtggtcc 180
aagcaagcca tatgttctct ctccaatata gcagcagcaa caacaacagt cacaacaaag 240
acaacaagca actgaggctc ct 262

<210> 11985

<211> 260

<212> DNA

<213> Glycine max

<400> 11985

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agacctcaag gtgatggcac tcacattttt cagattttgc acagtttggtg aaggcaattt 120
gtcagaattt tgggactgag cttgattcat ctgagtagcc atctgtccca tctgatttgt 180
cagactctaa atgaaggctc ttgtctcttg ctgaaattgc atattctgga tggtcatttg 240
cctcactaac tcttctaagg 260

<210> 11986

<211> 333

<212> DNA

<213> Glycine max

<400> 11986

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agagaggatg acaaggagaa actactgagc atgcttctat atgatgatga tgccatgtct 120

aatgatatag aagtgatcac agtattgggc atgggaggtt taggaaaaac aacccttggt 180

caatcccttt acaatgtaag tgaagtgcag aaacattttg atttgacagc ttgggcatgg 240

gtgtctgatg atcttgatat tctcaatgga acaaagaaaa ttgttgagtc tctcacattg 300

aacgagtgtc atttacttat cttggcggtt tcg 333

<210> 11987

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11987

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gaatcccact tatgaaacat ttaccttgga ttagatcctt ggattttgaa gcttcatcac 120

cgttaagggg aaagactcct cctgtggcct tcgaacatcc agtttggtca ttcaggccca 180

caccattccg ctccctcttg ggatataggc aatctctctg aatatgccct ttctgcttac 240

agttgaaaca agtcatgcct ttattagcac aatttgagga gatatgccct ggcttaccac 300

atttgtaaca tgtgatctga gttgaggaag tagtgggttt gctaccacta acaccacca 360

tagcaacagt cctttgattg ttggggcgaa taccatattg cttagagggga gttgagtacg 420

gtttttccct atg 433

<210> 11988

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11988

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aaaatccttg atgaaacacc tgtcaaacc gacatgtcct ataaagtctt tgatgcctct 120

gacattgggtt ggcagatgca atatttcaat gactgacacc ctggcttcat cgacattaat 180

gccatgaaca aagacttttg gcgctaatac aataccttta gttactataa agcgggaatc 240
 tttctaactg agctcaaata tttttgcaac acgctgcttc agtacagagt caagattaca 300
 aattcataaa tcacaagaag agccacacac acagacttca tccatgaaca ctctaatact 360
 cttctccacg aga 373

<210> 11989
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11989

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 tttttcctat caattntctt ttgctctttc aatatatttt ttctaagcaa ttcagcttca 120
 acaatgtcat gagttagtgt gtgacttcat caatgtgcat gggacaggta cttgacgggt 180
 ttcttatatt tcacgggcat taatttcgtt ttgacatttg ttgctgctat tctctgtgtg 240
 tgttttgcac ccacaccagc aggacctgga attcctgaga tcaaagctta tcttaatggt 300
 gctgatactc ccaacatggt tgggtgccaca acattgattg tcaagggtaca ttaattattt 360
 gattgtatgc aacactgtct c 381

<210> 11990
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11990

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 cccgtacctc atcggaaacc caaacagtac cccatctgcg gccgtcaact acggcattgt 120
 tatctctggt atggcgctcat ccttgggcga cgccctcacc tgatatatca cctcaatcgg 180
 caatgtctcc gagaccctat acagaacccc ttccacacct tccactctgt ccattgtgat 240
 cttcaacctc ttgacatcc ccccatgccg tctgagagag acgaccacga cgaccacgct 300
 gctttacgtg ctggcactgg cgtgtagggt cacgcggcag gcattgtctg gaggcgacat 360
 cagaggcaac atggggggtt tgggtgacatc agtgggag 398

<210> 11991
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 11991

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attatctaca caaaaggtag acttctctat atttgcataa aggggtgttct tcctaaagac   180
tgaaagaact tgtctgagat gtcctaagtg aaaatctatg ctctactat acactaaaat   240
atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat gatgcataag   300
cctcataaag gtgcttggtg cattagtgaa cccaaaaagc atcactagcc attcatacaa   360
accaacactg gtcttgaagc agtcttcact catca                               395

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<210> 11992
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11992

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gatcaattga tagtctcaga gttcaagacc ttgtctgagc taaagcaatg ttacttcaaa   120
aaacaatntg atcctttacc agatagagca attcttgcag ctaaattaaa ggagctgcaa   180
agtggtcaaca aaacctttga gaatacaggg aagaagttag aatcgagggc aggggtcaag   240
gactctgaga ttatatctt ccaagaaaag ctagaggaag ctaatgtgca caataagtca   300
attgagaaga gttaaataca agtggatcat tatcagttct tgataatctc catatgtcag   360
gactaagtcc tagccatttt gtcaccgctc ttgccacac agttaggtcc attcggagct   420
ntgtgaaaat tgttagtaat gaaatgagat ctgcttggtg ggatattg                               468

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<210> 11993
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 11993

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ctttcccacc ttcaccacga gctgttctac caacctgtg gatataattcc tggtagcagt 180

ataaaaaaaaa tgtgacatag tacatcaaag tataagactt ctaagaagca aatgaaaagg 240

gatattgatt gataaataga agaataaaaa gtacctttgg ttcattcagg ggatcatact 300

gcacaatcca gtcctacagc acaaataagg agacaataaa cataaatctt atatatgtaa 360

tgaatttcaa ttaacagaac agaattgctga ataaacacgg ttcattcaag tgttgtaaaa 420

tgtntacat tagtattagt atagaaaacc aaattaaaca taga 464

<210> 11994

<211> 355

<212> DNA

<213> Glycine max

<400> 11994

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tttgcccttc gctgcatctc catggtgaaa aatcaccatt gaaggacctc attgaagctc 120

aaagatccag cctccataga agctccacaa gcaagcttcc atcacttttc acacagaggt 180

cagattcggg cacataatat gtccagatgc tcggaattga accacggaag ctctcgagta 240

atacaaatgg tcataacatt tcacacaaat gtccgattcg ggcgcataat atgtcgagtt 300

gctctaaatt gaacaacaga agctgtctat aaattcaatt ggtcataaat ttcca 355

<210> 11995

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11995

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ttcaattact gtcaaggctt ttggagcatc tataacttgt tcaactatat ttccagcgac 120

atttcgggtg ataagctgca ccaaattctc ctttttcctc tgtattcttt cagcacgaaa 180

gtattttttg gttttcaatt gcttggcaac tatagtttgt atctctcctt tggatgacct 240

cttccggatc tcatccagag aagccccctt ctcaagctct gctaacaatt gttttcttgc 300
 ttectcaaat tccatctaata tcaattaagc agtgagtgcc aaaaagtatg gtttagagaaa 360
 atgaaatata gttntgacaa tctatgtcat taat 394

<210> 11996
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11996

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 tcaaagaaaa aatcgactca tagtcagggg cgtttaacaa aatcttctgg gaaagggact 120
 cattttttga aattcaatct tgaaaggtgt tcagtacatg tatggngtga gacagggttg 180
 gaaaatacaa ttgttccaga ccccaagcga gttaattacg gctcacaggg gggtagagtt 240
 atgctaaatg tgtcagcaga tggtagccca cgcaatgcaa atataatgtc cactatttcc 300
 gatgaatacc agaagctgaa gtactctgtc tctcttgaaa tatttcaata tagtttgtgt 360
 gtgaacaaag agaaacagtc cacacagatg gaacttgaaa gagcagatct g 411

<210> 11997
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11997

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 aatattattt ttacataaaa agtcatctat attttaaaag gtcattgaaa aattataata 120
 acctatatat atatatatat atgatttatt gtaaaagact tttataataa atatcttggt 180
 atttaaactt taatagattt atatcataag gataagattt ttaaaaaatc tataaattta 240
 taagatttaa aaaaatcata tagaatttta acaaacattc aaaattcaaa tgataaaatt 300
 aaatatctgc tgtgttctat tataaacaac ctaaataatg aaatgccatt tttaatctgt 360
 tcatatctaa ttgtcagctt catcatcata ttcagtctat cctctgcta acatttacta 420
 aatctttccg actgtactcc aacattatg 449

<210> 11998
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11998

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 aattgaagct gcatgattca cgatgtctga tacaatgtcc aggacatcct gctcgaaaat 180
 actggaattg ctaaaagcat tgaagctgca ggatccacga tgcgggatac aatgtccagg 240
 acattctgcc cgacaatact ggagttgctg tacaatgcaa gataaaagtc aagttgtgaa 300
 gctgcaggat ccacgatgtc ngatagcatg tcttgacttc cggcccgata atactggaca 360
 tataattctg tttattttta cagattattg gcagttgc 398

<210> 11999
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 11999

ctatacgaga catcttgccg aacgaagtca agctatccat aacttgccctg tgctccttct 60
 tgcattgccat atgtaacgga gacgatgata ctgtcatgat cgacgacttg gaaaatgatg 120
 tcgtaactat actgtgccag ttggagatgt attttaccct tgctttcttt gacatcatga 180
 ttcacttgat tgcgcatttg gtgagagaca tcacatgttg aggtcttgat catttgccga 240
 ggatgtaccc gggtgagcga aacatgaaga 270

<210> 12000
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12000

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 actagacatt ctctgaaaga cttatgcaat aatatggatt ttgtatctat gattgaacct 120

aaaaatatga aagaagccat tatagatgat aactggatca ttgccatgcg agaagaattg 180
 aaccattttg aaggaaacaa tgtgtggaaa ttagtagaca aacctgataa ttatactgtc 240
 ataggaacaa aatgggttct tagaaataaa ttagatgaac atgggtgtaat tattagaaat 300
 aaagccaggt tagtagcacg aggttataat cgagaa 336

<210> 12001
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 12001
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 gcttcagcaa aggtcatgtc tccaagggct ccaccactgg caacatctat catacttctc 180
 tccatgttac tgagtccttc ataaaaatat tggagaagaa gttgctctaa aatctgggtg 240
 tgagggaac tggcacataa tattttaaat ctctcctagt attcatataa gttctctcca 300
 ctgagttgcc tgatgcctga aatgtctttt ctgatggaag tggtcctaga tgcattggaag 360
 aatttctcca acaacactct cttaatgtca tccagctgg agatggatct ga 412

<210> 12002
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12002

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 atgtccgcca gggtcagcc tatagccttc ttatgcttct tgagaactgg caacaacttc 180
 tctcttgct catcagcaag ggaggcagat ataactctg gaaaactctt gctatcatcc 240
 aagtaagccg tatttaaatt ngatggcaga ggcttcaatt ttggtgtggt tgggtggaca 300
 gtggtagaag gagatggttt ctgagccttt acctcataa gaaagtcaga ggtatgtgta 360
 ctccctgaa catgggttagt cctatctgac tctatnaaat caatcttgag aggtaanaca 420

ccaccaccag acattgcac c aatatcactc tcagatcact c

461

<210> 12003
<211> 327
<212> DNA
<213> Glycine max

<400> 12003

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tgatgatatt aatttcctcc tccatggctt gtctccacct tttgtgttcc atagcttctt 180
caaaggtgaa aaactccttg tctacaaaaa gacaaaacac ctcatccttg acttcagttt 240
catcatgtat gtcttgaacg cttcttcatt attcttagtc tttcacttga actcccttcg 300
gaagacgaac ttctgaatt gaatgac 327

<210> 12004
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12004

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aaaaccagca acaacaccta tgatatactc ttgagttcca tgtttgacaa gagcttcatt 120
ccacaggtcc ctccaccttg tagaaagaag gctggtttct agcgatgatt catttggttag 180
aaatgaaact atgcgaccta gaatttcgtc tggtaaatta ctaaacagat cctttcccat 240
atggaatgaa tctgttgntt cagtatggtc ttgtttggac taagaataca atgacatcta 300
tatatttgta actntataat tcatgtgaac tatgcangtc acaacaagga gatat 355

<210> 12005
<211> 206
<212> DNA
<213> Glycine max

<400> 12005

gatcgatcat gatgagcagc gtttgaagca agacttatag cagatttatt atcacaaaat 60
agcatcacag agggcacatc aacttcaaag tgaataagta acttgtttaa ccacacaatt 120

tcactagtaa cagaagacaa ggcataatat tcaacttcag tgcattgattt tgaaacaggg 180
 gggtgtttct tataacgcca agaaag 206

<210> 12006
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 12006
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 gttctgaggt tgcacatga tgttttcctt gcacctagat gtttgaatat gcctcataaa 120
 atgtatgtat gttgcatata agtaacaaaa tgccctgtga aatgtatgta tgttgcatgt 180
 aagtaacaaa tgtctcataa aatgtatcta tgttgcatat atgtaaaaaa atgcctcata 240
 aaatgtatgt atgttgcata taggtaacat atgcctcata aaataccttg ttaatttagg 300
 tagcaaaata ccttatctat ttatgtagca tacatacctt atcaaattac gtagcaaaat 360
 acttgaatac acattgaaat gtagattttt acgtagcaaa aatactcgaa tatgcatgaa 420
 atataatttg gtagcaaaa atacttgaat gtgcataaaa tatat 465

<210> 12007
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12007

agcttcaaca ttcaatatcg agcgtntcga tatatttctg tactgaatca gacatccgag 60
 taaaaagtta ctgtagtttg aagttgctca cagctaaggc attcaagtcc gagcgtctcg 120
 atatactgcg agactcaatc agacatccga gtaaaaagtt attgtcgttt gaatntgctc 180
 agagcttcaa cattcaattt caagcgttcc gatattttac aggactcaat cggatagccg 240
 agcaaaaagt tattgtcatt tgaatttgct cagagcttcg gtattcaatt tcgagcgtct 300
 cgatatatta cgggactcaa tcagacatcc gagtcaaaag ttattgtcgt ttgaatatga 360
 acagaacttc ggtattccat tttagcaac tcgatatatt acaggactca atcagacatc 420
 cgagtaacaa gttattgggc gttgatttgc 450

<210> 12008
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12008

```
cttctggctt caattcatca gtgggctntc cttctgtgtc cagcatcttg ggatgttccc 60
agcctttgat gacagctttc caggttctgc tatccagtga ttgagaaag gccaccatcc 120
trgctttcca gtattcatag ttggteccat ccagaattgg tggctgtgtc actggtecgc 180
cttctttctc catgttcac cagaatntat tccctagatc tcactcagtg atttcgagtg 240
cctgctctga taccaattga aattctgata ctggggacag atgtcgtaca ggatgtcacg 300
acatcacgct tcagaacatg cagattgtct ttgactgtat gaacagatta aacaagtaaa 360
taacacaaga gaattgttaa cccagttcgg tgcaacctca cctaca 406
```

<210> 12009
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12009

```
agctntntcg cgcactaata ctgagctgta tgtttgtgtt aaggatatgtg gactccaaaa 60
ttgatatggg agataatgaa gctetaacca agtcttttgt attagaagaa tttaaatatg 120
ccctttttcca aatgcacttg gataaggcgt ccggacctga cagattgagc ccgacccttt 180
ataaacgggt ttggaatgtt tgtggatttg agattttcta ggcttgtgtc tcttggtgtc 240
atgaaggggac tatgcctcct cacttgaatg atactaatat tgtcttaatt ccgaagaagg 300
agaatccagc atctatgaag gacctttgtc ctatatcttt gtgcaacgtg gtgtacaaga 360
tcatgcta atgtgttagcc aatacgttga agcccgtgtt ggataatgta tctccgcaga 420
gcaatctgtg tttgtggaga acagatctat tattgataat 460
```

<210> 12010
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12010

```

agcttggtaca tggcaacatc aaatcctttt cttctttctc aacaccaaac agtatggctg   60
cgtgtctgac cttggcctgg caaccatata aagctcactt gccttaccaa tatcacgagc  120
agccggttac cgtgcaccag aagttacaga caccagaaag gcagcacagc cctcagatgt  180
ttacagcttt ggtgtggtgt tgctagagct tctgactggg aaatccccta tccacacaac  240
tgctggcgat gagattatcc accttgtagag gtgggttcat tcagttgtgc gcgaggagtg  300
gacagctgaa gtgtttgact tatagctgat gagatatact aacatagaag aagagatggt  360
ggaaatgtta cagatagcca tgtcatgtgt ggtaggatg cccgatcaga ggctaagat  420
gtctgaagta gtgaagatga tagataatgt ganggcagat gatgcagata ctactcatc  480
atct                                                                    484

```

<210> 12011
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12011

```

agcttaacca aagtctatac tgttttgttt gttatagctc tngactacta tccttgccct   60
attcctagtg atcaaaccat gttcattcaa tttattttta aacactcatt tagtgtaaatt  120
gatgttcatg tttttaaaat aaggattata ttcccatata tcattttctt taaattggnt  180
caactcctca tgcattggaca tcatccaaaa cttacatttg agtgccctct ctatagacaa  240
tggtttctact tgtgacacaa atgcagtatg ctacaaaaat aagttcaaag agtgtctagt  300
agttactcct ttttctatgt cttgcatgat gtttgcata gaaatatcca ttggtgctct  360
ccattcctta agaagataat cgtgctgtga tgagagccat tcttgatggt tatttctcac  420
aaactcttca ctcttcgatg aactt                                                                    445

```

<210> 12012
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12012

agcttgggttc ccaatgctnt gttcaagctc tttcaatacc tataggtaaa totaggatct 60
 ctatcagata ctatgctaga tggcacacca tgtaacctga caacctcact tatatacaag 120
 gtgggtcaact tctccaagga aaatctgata ttaatgggaa tgaagtgagc agacttagtc 180
 aatctgtcaa caataaccca gatagaatct aaacctctag gggttctagg tagccctacc 240
 acaaaatcca tggaaatact ttcccacttc cactgnggta tctctaaggg ttgtaacttc 300
 cctgaagatc tctaattgtc tatcttagcc ttctgacaga ctangcttgc atacacaaac 360
 tcactaacc cttcttttca tgtggggccac caaaacatcg tcttttaaate ctgataccat 420
 cttggagcac caagatggat gctcaaatta ctccaatgtc ctctctctaa gatcacc 477

<210> 12013
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12013

ctccaaagct gctcanagaa gttcataagt tgtaaaagct atttggatgc aagtcaaaga 60
 cttgctttta tagactcttc atgtctagtc aagagaacca ttggaagagt tattatcttg 120
 agaaaatctt gagaaagcca ttggaagagt tacatctctt gatcttgtat tcataacttg 180
 ccgcttggta tcgattacca taaccatgta atcaattaca caatgcattg tatgacaaga 240
 tgtgactctt cacaattgaa tttgaatttc tacgttcaga tacactggta atcgattacc 300
 aatatattgt aatc 314

<210> 12014
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 12014

ttcagcttca cccacctatt gagcacaatt aatcatggag aatcttctga agtcataacc 60
 aattaaccat tacttaaaca tattaacata agaaataaat gagttaaaca aggatactgc 120
 tagaatatat gaaaaattat ccaaaaatat cttgatttta attttaaaat aattcagaat 180
 atctaggatt aggactacct gtttgggatt aacttcata ttttctaattg tttcatgatt 240

tgtaatcata cctagcagta gtttaaataa ggattttgta acacatataa cacatcatat 300
 caaatcaatt aaaaagtcaa atttccatgt ataaattttc ttttatttcc ctttccctccc 360
 tetatactta aaaccttata attccgactg atacacagat agagacatac ccattttgat 420
 gtcaaggaag ctgctgtgac attaaaaaat 450

<210> 12015
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12015

tggagtttcc aagcgccaat tegtcttctt cntagtcca gtcttcttctt ggcttcaatt 60
 catcagtggg ctttcttctt gtgtccagca tcttgggatg ttcccagcct ttgatgacag 120
 ctttccaggt tctgctatcc agtgatttga ggaaggccac cattcttgct ttccagtatt 180
 catagttagt tccatcaaga aatggtgggc tgttacttgg tcttcttctt ttctccatgt 240
 tcatcagaat ttatctccct agatctcact ctgtgatttc gagtgtttgc tctgatacca 300
 attgaaattc tgataccacg ggacagatgt cgtaccggat gtcacgacat cacgcttcag 360
 aacatgcaga ttagatgcgt ccgtntgaac agattanaca agtaaataac acaagaagat 420
 tgttaaccca gttcgggtgca acctcaccta catctggg 458

<210> 12016
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12016

agcttctagt gggacatctt gacttgctct ccaatctgac attcaccaca gattctgcct 60
 tcttctatct tcagaatgng aatgcctcta acagcacctt tgacaatgat tntcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcatc ttctttggag 180
 gatagacatg tggaggagta gctgggttct tgggggtgtcc ataggtaaca attgtccttt 240
 gatctgctgc ctttcattac aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcta agttgcagtc 360

agtccttca ccagccagac tttgttc

387

<210> 12017
<211> 411
<212> DNA
<213> Glycine max

<400> 12017

ccgctactcc catacatata aaaacaactc ttgaatctgg cttctcatcc agccatagta 60
atatactatc atgatgggct tgateccacat tttggttatg ttgaccttc aaaataatca 120
atggaccaac agcatacatt gggggtgtgt gaatttgacc atcacatatt gcattaatag 180
catactgttc tcaactctgaa aaagagatat caaagatccc tttggagtcc ttgtacctct 240
gagcaatgtt ataattagta gcatatccac cttgtttgtt taaaacagca tcaggcacia 300
cactataatg aactggatca gggagacccg gttccaacca ctgatgatca gaatcatcga 360
atgcatcacc aactctacgt ctctgaaggg ataacatgat attcaaaaac c 411

<210> 12018
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12018

tacggaccta tgaatactaa gcttgtaggg agccacagag aatggtgaat cctaccattc 60
ttgatatggt gaagaaagag gtgatgaagc tactagctgt agggatcatt tagcctatgt 120
tagataaaac ttgggtttca cctatccaag tggtcctaa gaagtcaggc atcattgttg 180
tgagactta ggataatgag ttgatcccg ctagaatgac caatagttgg caagtttgta 240
ttaattatag gagactgaac caagcaactc gcaaggatca ctttctctc tcattcgttg 300
atcgggtttt ggagagggtg gtaggtaa atcacactatg atttcttgat gggtttatag 360
gttacatgca gattcatatt gcattggagg actagcataa gaccacattc acttgtccat 420
tcgacacatt tgcctacacc aagatgctta tg 452

<210> 12019
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12019

ttaagcacct gagctgcage tgccttgccc ttgatataatt gagggactta tggtcactat 60
gaatgacaaa ttcccttgga taaaggtagt gttgccatgt tttcaaagcc cgtactaagg 120
catacaactc cttatcataa gttgaatagt taagggtagg accacttaac ttttcactaa 180
aataagcaat tggatggcct tcttgcatca acacagcccc aatcccaaca tttgaagcat 240
cacactcaat ttcaaaagat ttttgaaagt ttggcaacgc aagtatgggg acattagtta 300
gcttttgctt aagaacattg aaagcttctt cttgtttctc tccccatttg aaaccaacat 360
ttntcttgag cacttcattg agaggtgctg ccaatgtgct aaaatccttc acaaacgctc 420
tataanaact tgctaagcca tgaaaactcc tcacctcggt cacagactta ngtgtatgcc 480
attcttgaat agccctaac 499

<210> 12020
<211> 268
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12020

attcacgcgc ataatatatc cagacgctcg aaattgaaca acgaatgctc tcgataaaat 60
aaagtggcca taatttgaca cacggaagtc cgattcaggc gcatactata tcgacgactc 120
tctanattga acaacgaaag ctcttgagaa attcaaacgt gccaaacctt gtcacacggt 180
agtcggattc acgcgcatat tatttcgaga ctctccatat gatatacgga agctctcgag 240
aaattcaaatt ggtcatatatc ttatcaca 268

<210> 12021
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12021

tattatanna ctaattaaaa gactagaagc caacttatct ggtatgtcaa aaactataaa 60
anaaatgtac tgacaattga aataatatat acttgggtgta cttaacatcc aatttgtaat 120

aatttgTTTT aatgatctag caatacatac ttggattaca acaaaaaaaaa atgtacacaa 180
acaatcaaaa tcaaactaat ctaaatatgt aatcagtcgt cctgaataaa gcagacctgt 240
tatttttgTT taatggTTTT ggtatatagg tatctgggag acacagatga agctgttaaa 300
tcaactgatca aggccgtgga tatactacgg attactcatg gcacagatac acctttcatg 360
aaggacctct tgatgaagtt ggaagaagcc cgtgccgaag cgtcttacag attgtcncta 420
aagagtatag aatgtcgaaa ta 442

<210> 12022
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12022

agcttgTgtg gtagcaaaaa tacctaggTT tttctctta gattcgagtg aagtctgacg 60
atattccgaa gactactttt aggaccCGTT atggTcacta cgagtatcta gTcatgcCCT 120
ttggTgtgac taatgctcca ggtgtgtTTa tggactacat gaataaagTc tttcaccCtT 180
actttgatag ttgtgtggTa gtattcatag atgaatatTT ggtatatTTca aagactagag 240
aggaacatga agagcacttg aggattatgc TgcttaccCt tangaatcga caacttttTat 300
gctagttgtc caagtgtgag ttttggttag agaaagTtag tttcctaggG catgtgatat 360
ctcaaggggg tatagTngTa gaccCctcta agatagaaag Tgttcttgag Tg 412

<210> 12023
<211> 403
<212> DNA
<213> Glycine max

<400> 12023

actagatgcc ttggTTaacc Tggtaatcca actggTcatg aatcaaaaat ctacacCtgt 60
cgccagactc cgtgggTTat gTcctctgc TgaccacCtc ataaacCtTT gccCtctgt 120
gcagcaattg aacagcCtga atCttatgct gcaaataact acaatagacc tCctcaacCt 180
cagcagcaaa atcagccaca acagaacaat tatgactTct ccagcaacat gtacaatccc 240
tggtggagga atcatcccaa cCttagatgg TcgaatCctt cacaacaaca acaacaacaa 300
caacaacCtT attttcagaa Tgttgctggc ccaagcaaac catatgtTcc tccaccaatc 360

cagcagcaac aacaacaaca acaacaacag cccagaaat agc

403

<210> 12024
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12024

ggcagcaagc ttgttaatcc atcttctcca agagctcctt gataaagaac tntatgtgaa 60
tcctgagatt taacacatca ataggaagga tgaaactcaa agaaacagtt attatcgga 120
gtgaatttac taacactaag taaattcttg gtaaggagg gaactagcag taaattttta 180
agggagagag tagtgtttgg aaaatagggg gacctaaaca gatttgagcc tatggaagag 240
attcttgtac ctgtgccatt agccattatg atatgttcat ttctgcagc ttgactgctc 300
tgaaggagaa tatgtggatc attggttgca tgggtggaag cacctgaatc tggaaaccaa 360
gcctgtgaaa tgtagcagt atgtgg 386

<210> 12025
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12025

agcttcatgc ttaagtatgc atggcaattc ttcattattg ttgntcaaga catacaagag 60
agcttgtaac aaatcttcta gacttggagt catcacatgc aatcctcttg aacccttacc 120
accacacctg tcatcatgcc gagactaacg aaggccatct agtatatcct tcttaatgta 180
ttctgaacaa aattcaatgg cttcttttgc aaagtacctc tcaacaatag atgcttcacg 240
acgatataca ttatttgtat accctgttaa gatctttatg tategctcaa ccgggtacat 300
ccatctgaga taaacaggac cacaccattt gatttctctg accaaatgct caatcaagt 360
aatcactgat gccagagaaa gcagggtgaa tatacatctc caactggcac aatat 415

<210> 12026
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12026

ccgagcatgc tgcacgtatg atatgcccga catctgacat ccgagcgata ggttacgacc 60
atttgaatct gtcgagagct ttcgatgacg agctaccagc gtcccgacat attatgcgcc 120
cgagtcggac atccgtgtga atacttatga ccccttgaat gtctggagaa catccgatgt 180
tcagtttcta acgtctctat atgtgatgcg cccgaatcag acatccgtgt gataagttct 240
gaccatatga atgtctcgag agcttccgat ggtaattac gagcgtctat atatattata 300
agcgtgaatc cgacctgagt gtgaaaagtt atgaccattt gagtntctcg agagctttcg 360
tcgttcattt ctacggtctc tatat 385

<210> 12027
<211> 213
<212> DNA
<213> Glycine max

<400> 12027
agcttatata tatcgaggcg ctcgtaactg acttctgaag ctctcgagaa atacaaatgg 60
tcgtgatctt ctactaggat gtccgattga ggctcattac atatacagac gcgtcgatat 120
gaacaacgga ctctcttgag ataataaat ggacatatac ttacgcgctg acgtccgata 180
catgcgcac acattgtcac accctctgaa ttg 213

<210> 12028
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12028

atcgtaaccg agcctctant tttcatcaac attaattagc aagcagtgag ccttttaata 60
ctctctgtgt tgcataataa tcattattta atattttaac ataaattaga aaataataat 120
tcttttaatg taatattaaa tcatttttta cttatatttc ttatatatta aagataaata 180
ccaaaaacta aaaatgaatt aatatgataa taatgttaat ttataaaaat tcgttatttt 240
ctatttctta atggatnttt tttatctgga caaaataact aatacacgtg aagacaaagt 300
gagttcatat tgaatatgct tatgcaaaaa gtgtttacac tataacctac at 352

<210> 12029
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12029

```

agc nttgtga tttcttcaag attatcttca ctatattgca tnntgctgct tcaatttggc 60
ctgcagattt cacaaataat acatttacta tgcttatttg gtaggtttaa attttcattt 120
ttttaagggg ggtataattt tttattaaaa gtcattgtat ttttttagaa ttntatttta 180
tgtgaggtca acttaagttt tttattttac acaaagttaa tttattttat tgccatatta 240
tccaattcat taatttgatt tagcaacaca ctgaatttct ataagtgtta atatttagca 300
acatattctc tagcacatct tttatatcac acattntatt atagattaaa atttattaaa 360
nactacaaaa ttaaaagaaa aataactcat taaataagaa gtgagactaa nnaaaaatgt 420
gattttaata aatttaatca tcttaaatat atattaaatg agt 463

```

<210> 12030
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12030

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agc ntagct ctnntcttat tggataatgc tttttgagga agtctctntt caagtggatc 60
aaatcatttt taatgatgta tgtgtttcct cttcttttagc ttaataatgt ccagtatttt 120
gactctaaat aaaagataga gctaattatt attatttatt gttagaggaa attaaatcat 180
ttttattggt agagcttaat aatgtccagt attagttttt gttatcctcc tatatatgac 240
aacttttgat ctgactgttg ttaaattaaa agattagatt aaattacaat attatatacg 300
tgctatattt attgaatcaa ccacttgata catgaaacat agttcttatg tcaggaatca 360
agatctagaa aaaagaaaac aaatgtacct aanaatatnt ctcattaact ntnntttaat 420
aaatatngta ttccttaacc acaaatcaat aactactcca tcatagattc t 471

```

<210> 12031
 <211> 413

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12031

 cgcacgtgat tcaactctatt cttagtctga atatttgtaa gtttctgttc gaatatgggt 60
 ttacatgtct tcaactctgca gtacgaatga tgtgagaaat ttgtaggaca ttttacttca 120
 atcatttttc ctttgactat cttctgaatg cagatcgcac ggaatgggtt ttgagagagg 180
 ttgggggtgat actgctgaac ggggtattgga aatgatgcac ctgctattgg atattcttca 240
 ggctcctgat ccttctacac tagagacttt tcttgggaga gtaccaatgc gtttcaatga 300
 tgctatatta tctctcatg gctactttgg acaagccaat gtcttngtt cgctgacac 360
 tgggtgggcaa gtatctcctt tgtcatatac cgataagact atttgagctg gat 413

<210> 12032
 <211> 276
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12032

 agcttctcga tatattatgc gcctgaatca tactctcggt taaaagttat gaccatatga 60
 atttctccac tgtattccgn gtgacaagnt atgaccattt gaatttctcg atagcattcg 120
 ttgtcaattt cgagcgtctc gatatattat gtgccagaat ccgacttccg tgtgacaaga 180
 tatgaccatt ngaatttggt gagagcatcc tgtgctagaa ttcgagtatc tcgatatatt 240
 atgcgcctga atcgacatc cgtgtgacaa gttatg 276

<210> 12033
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12033

 agcttgcttc tacactntca tgtntcacta ctctgtaa atatccatga tccttctcac 60
 gtgggtcaaat tagacgacgt tcaagtaaag gagaacttga catatgaaac attgcctttg 120
 aggatcaagg atagatggaa aaaaacttaa gagggaaaaa gatttcgttg atcaagggtg 180

tctggggagg tgcagcanga gacgaagcaa catgggaact aaagagtcaa atgcgagaaa 240
ccaatccagc cttgtttgag tcaagtaa atttgggatg aaatttgtaa aaggggtggga 300
gagttgtaac gccctgaaat ttcgataact gaaaatagat gcctgatgta tntattgtat 360
tagttaatta cttaa 375

<210> 12034
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12034

agcttgtagg ccttggatct tcttcatcaa tgatatcatc tgcttcttga agatcatgga 60
agtggaatgg agaaggaaga aagatgattg gagacgccac ttcaaggaga agataagtgt 120
agaagctcac caccatagga agccatagat aagagcttga aggttgcaga agatgaattg 180
atggagaggg agacaaggag catgaaatct tgtgcctcac aagagggttg aactttgagg 240
gttaattctc aaatgatcaa agttgaaaaa atgcacacac atgacctcta tttatagcgt 300
aagtgtcaaa caaaattaga ggggaatttg aatttctatt caaatttcac ttgaatntga 360
aatttgaatt gtggagccaa aatttcacta attatgatta gtgaattnta gctatgggtc 420
aaccactaa tccaagatca agtccaagat tctccactaa gtgtgc 466

<210> 12035
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12035

agcttctgtt ttcaattacg agcgtctcga tattcttcgg ngctctatcc gacatccgag 60
ttaaaagtta ttgtcggttg atttttctaa gagcttcctt tttcaattac gagcgtctcg 120
atatattacg ggacacaatc ggacaccgtt gttaaaagt atggtcgttg gaatttgctc 180
agagcttcta ttttcaatta cgagcgtctc gatatattac ggtactcaat cggacatccg 240
agtaaaaagg ttttgtccgt tgaattctct cagagcttct gttttcaatc acgagcgttc 300
tgatatatta cgggactcaa tcggacatcc gagtaaaagt ttggtcgttg aattt 355

<210> 12036
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12036

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 cttaaaaaat ctaatatagt ataatagcct atatcacatc tttgtgaatc gtctattctg 120
 gtacgcatca cctcttctgt caggcatttg tggagagggg ctgatgaaaa gtcccacatc 180
 accaatgggc tcaatttttg ggggtgcaact tatatatttg ttgggcaaca ttccacttaa 240
 tgccaattgg ttttaggatg aaatctagca gnagatatgt ttatagtgat tcattgagta 300
 atcatgccaa attgcatttt attatatctc atgttttctt cac 343

<210> 12037
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 12037

tcatttttca attaccacgt ctgatatat tacgggaccc aattggacat gcgagcacia 60
 agttattgtc gtttgacttt tctcagagct tttattctga atttcgagcg tctcgatata 120
 ctacgggaca caatcggaca tccgagtaaa aagttattgt cgtttgattt tgctcagagc 180
 ttctgttctg aatttccagg gtgtcgatat accacttgcc accatcggac atccgagtaa 240
 aaagttattg tcgtttgaat ttgtcagag cttttgtttt cacatttgag cgtctcgata 300
 tataacgaga ctcaatcgga catccgagta aaaagttatt atcgttt 347

<210> 12038
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 12038

agcttgccct agttaagatt attaatTTTA ttcattaaat gacagtacat ttgtttcatg 60
 ttttgctgtt ttacaaaaag agctaaaact actctgttgc acttcgtcta catatacctc 120
 aacattacta tgcttaataa aatttggtga tcttagtaaa acataaagca ctttctcaaa 180

tattaagatc aaataacatt cagcgtatcc aagagatgca gccaaaataa ataatgagaa 240
 cattaaaaaa ctgaattacc tcaacttaaaa tgagaacccc tttcttggat gcttgacacg 300
 caacaaattc atagctgaca agattcattc catcccttaa agatgtaaca agtgctacat 360
 ctaaattcga tgtgagtc 378

<210> 12039
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 12039
 ctttccattg ctaaatacaa agcatttgta accaaaaaca tgaacgtgtg aaattttggg 60
 tgttctacca ttaaacagct catatggagt tttctttaa atgggtctta ttaaagccct 120
 tttcatgata tagcatgcag tgtaacagc ttcagcccaa aagtattttg gaagaagagt 180
 gtcatttaat aaggctctag caattttttc cttacaacaa ctccattttg atgagggggt 240
 ctaggcgcag aaaagttatg ttcaatgcca tgcttatcac agaataattc agaatctcta 300
 ttttcaaatt ca 312

<210> 12040
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12040

ttctatgaca tgcnnnnnttt ataggcgatt cataaaagac atttcaaaaa ttgccaaacc 60
 acttagcaat ttactaaaca aggatgttgt gttagcattt gatgaagact gtttggaagc 120
 ttttaatat ctcaagacca ggctagtatc tgcccctgtg attatagcac tagattgggg 180
 gcaagagttc gaattgatat gtgatgttag tgactatgtt gtaggtgccg tacttgggca 240
 gagaaagggc agagttttcc atgccatcta ttatgccagc aaagtcttga atgatgcaca 300
 aatcaattat gctaccaccg agaaagaaat gttaggaatt gtc 343

<210> 12041
 <211> 330
 <212> DNA

<213> Glycine max

<400> 12041

acattccatc aactatcctg ttgatgttgg caagagggta tgcggctttg gggcatgccc 60
tattcagatc agtgtagtca gtgcacattc gtcatttgcc attcatcttt ttgaccatga 120
caacattgac gagccaggta gaaaacctga catctatgat aaagtgtgca tgaaggagct 180
tttcgacttc ttctttgaag gctttacgtc gttcttctcc catcttcttt ttcttctgtg 240
atataagttt ggcttggggg aagatagcaa gtttgtggtg gattatgccg aggtggattc 300
ccgacatgtc aaatggctgc caagcaaata 330

<210> 12042

<211> 339

<212> DNA

<213> Glycine max

<400> 12042

cttctataga aagggagtac taatttctct ttattgcctc atctctcaat gagctagtga 60
agaagaatgt ggcatttact tggggtgaaa gataagagca agcctttgct ttgctcaaag 120
aaaagcccac caaggaactt gttctagctc ttccegactt ttctaaaact tttgaaatgt 180
gatgcctctg gagtgggagt tgcagttgta ttgttacaag gtgggcacgc tattgcttat 240
tttagtgcaa aacttcatgg tgccaccctc aactacccca cctatgataa aaagctttat 300
gtcttaataa gatacctcaa aacttgggat cattacctt 339

<210> 12043

<211> 345

<212> DNA

<213> Glycine max

<400> 12043

taatactgat ggtacgcttt tggttatttc tgggacaagc aagatttggc ggaatcataa 60
gggatggctt tgggaattgg cacacaagtt ttatgggatc ctgtggcttt acaacttcag 120
ttcatgcaga gttactcgcc atctatcatg gtttgaagat agctagagac aaaggaattg 180
aaagattgat ctgcaaatca tattcgaagc ttgattagga cctaatact ggagaaatca 240
acttgtttca tcaatatttc cctaccatca tgctgatcca tttgttgaag cacatggatt 300

gggaggtgac ctttgagcac gtgtaccgtg aagggaacaa gtgtg

345

<210> 12044
<211> 375
<212> DNA
<213> Glycine max

<400> 12044

agctgactag tgaaggaagt tctatatatt ttccggcgcc aagatgggtca tatctgtttc 60
ctgtgagaca aagttatgag ctgacagata gcgctcaact tccgatgcgg tagcataatg 120
ggaaattccc gcctggcctg gttgcatgcc tagctcagcg taatggctac catctcaagg 180
gtagtctcag aaagggatta ccttgtgcct atgcagtaca tgcgagcaag gacgcgctag 240
cgacgggtga gggatcattg gatatagcta ctatcagcat agcatactgt aagaaggatt 300
attttatatc gcaccatatg ataatttttt acagcagagt atagcatcta tccggggcta 360
ttttaaattg tgyaaggtgt attgtgatat aactc 395

<210> 12045
<211> 329
<212> DNA
<213> Glycine max

<400> 12045

cacaatgagt actttggaat atggatatat ttgggtgtcac caactcttgg agctgtgggt 60
gggtacttgag cctataaatt cattaggtac acgaataagc cagcgcatga aatcaccaag 120
agtgcctctt tctcaaagg tgggtgaagct gagtgattca acagcaaattg caagaattgtg 180
gttttttctt cttcattttc ttatcttcaa tttcaccatg cattaggggtt aaaattttaag 240
aaagaattac tggtttagtg tgctgaataa cctataata tagatagagg aaatgaaaaa 300
tacagtttct cctaattccat gcaacaatc 329

<210> 12046
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12046

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gaagaatgtg gcatttacct ggggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120
aaagcttact aaggcacctg ttctagctct tctgacttt tctaaaactt ttgagctaga 180
atgtgatgcc tctggagtgg gagttggagc tgtattgtta caagggtggc accctattgc 240
ttattttagt gaaaaacttc atagtgccac cctcaactac cccacctatg ataaagagct 300
ttatgcctta ataagagccc tccaaacttg ggaacattac ct 342

<210> 12047
<211> 301
<212> DNA
<213> Glycine max

<400> 12047
gagacgctct aaattgatct ttggaagctc tcgagaaatt ccaatgggtca taagttttga 60
cgcggaggtc agattcaggc gcatagtata tcgagatgtt cgaaattgaa caatggaagc 120
tctcgagaaa ttcaaattgg cataactttt cactcggagg tccgattcaa ttgcataata 180
tategaaact ctcgaaattg aacaacggaa gctctcgaga aattcaaattg gtcataactt 240
ttaactcgga tgtcagattc aggcgcataa tatatcgaga tgctcgaaat tgaacaacgg 300
a 301

<210> 12048
<211> 370
<212> DNA
<213> Glycine max

<400> 12048
agctttccct cttttatcat ataccctca gccaaataga atccatcttg ggctttttc 60
ccacaactct cataaatggg agagaaatgt tcacttaaag catacaagtc cctaataata 120
tcaaataccta aaattcgagc tcttagggag caaaacaatg tgtgtctcct agagagggca 180
tcagctacca catttggttt tccctttttg tatttgataa catatggaaa ttgctctagg 240
tactctaccc attttgcatg cctcttggtt aacttgcttt gccctetaat gtacttaagt 300
gatcgatgat cactatgaat gacaaattcc ttggaaacaa agtaatgttc ccaagtttgg 360
agggtcttta 370

<210> 12049
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 12049

agcttttacac ttatgggggt tatgtttctt cggctattgg aagttgcatt ttcacctttg 60
 ccagagcatt tcttgctgtg atagctggat acaagacagc cactgttctc ctcaataaaa 120
 tgcattttgtg cattttttcaa gcaccgatat cattatttga tgccacccca agtgggtcgaa 180
 tcttttatag agcatgtcat aatattgcat aatccttcat tggactaatt tgaagagaga 240
 actcctttac ctgatatatg gcttagcgca ttgtttttta gaagacgact tctctctttt 300
 tatttctca tgaccataat gaatgtaatt ggtggctaaa acctagattt actttatct 359

<210> 12050
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 12050

agcttgtaat cyattacaac ttgtgtgtta ttgattacca gacatgaaaa ttcaaatttc 60
 aaatctgaag agtcacaatt ctttagaaac taactgtgta atcgattaca acaattatgt 120
 gatcgattac tagtaaggaa ttttcaaaaa taactcccaa tagtcacaac tattcaaaaa 180
 gtttttgaat ggttatcaaa ggctataaaa taggtgactt gggacatgaa attttttaag 240
 agagtttttc tgaacaaatt gtcttctcct ctcaatacaa aattgtotta taactctcaa 300
 aatattcctt ggccaaaata cttgcaaatt caacaaggaa tcttgattga tcttcaattg 360
 taatctcctt ctcttaag 378

<210> 12051
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 12051

ttaggtcca agaggattgg gctagagcta ctgaagaagg cctaggggtt ctcatgaacc 60
 tgagggtaga tttctgagcc catgggcca tggtgggtcc aattatgttt gtacatatta 120
 gactaggatg tcattatatt tggctcttct atttaacact ccataatgta agtagggtag 180

cttaaaaata taggattttt caactctggt attttagggc acctagacta ggtattgtat 240
aaggggtaga ttagaatttc acatgcacta agtgaatatt tgatgtgagt gctgggaaat 300
aaaaat 306

<210> 12052
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12052

agcttcaaga aaaagatggt ctcagcaaatt tcttatttc cagaagggaa ttctatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccogaat gcaaattttt 120
attgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac tatagaaaaa 240
cctatagata gatggtctga agaggataga aaacgagtag aatacaactt aaaagccaaa 300
aacataataa catctgccct gngaattgat gaatatttca gggtttcaaa ttgtaagagt 360
gctaacgaaa tgtg 374

<210> 12053
<211> 346
<212> DNA
<213> Glycine max

<400> 12053

tctaaacttt gttcattatg aagctctgat atttcttgtt agacaagtgg cctcagatat 60
cttaagaagg gggggttgaa ttaagatatt cgaaactttt tcccctaatt aaaaatctat 120
cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaatcaa 180
atgaagcaac ttgaatatga atataaagca ataataaata aaggagatta agggaagaga 240
aaatgcaaac tcagttttat actgggttcgg ccacaccctt gtgcctacgt ccagtcocca 300
agcaaccgcg ttgagagttc cactaacttg taaattcctt ttacaa 346

<210> 12054
<211> 331
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12054

agaggcattt gaggagctga ggaggaggct taccaccttt tccatcatgc aaccattaga 60
atgggagctt ccatgtgaat atatgtgaga agcctccaaa tatgcactcg gggaagttct 120
cgacaagaga gttgatagac tatcacatgt cattgggtac gcctcaccac tctggatgca 180
aaccangtca actacaccac ccccgaaaaa gagattgtag ctattatatt tgcattagat 240
aaattcagat ctgtatttgt tcgtcctat attactatgt gtactgacca tgcaggcttg 300
agatacttgt tgaagaaacc taatgctaaa c 331

<210> 12055

<211> 326

<212> DNA

<213> Glycine max

<400> 12055

tcaaccccat atgtgtatgt tttagtgttg aggcgcattg tataacttgcg aatctctctg 60
aacacctatt ccaagactgt gatgtgttg gtcattgac agccatgtca 120
tcaacataga cctcgatatt tcactctatt tttgttttg agaccgggc catgagcctt 180
tggtacgtgg ccctgtgtt cttcaatcca aagggcataa ccatgtagca gaaattgatg 240
tcttcaatta tgaaggcaat ttttctctcg tcgggagggt gcactctgat ctggttatac 300
cctgagtagg catctaggaa acttaa 326

<210> 12056

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12056

tggttaccn ataagaattt gctttctatt tagctgttca tagcaccact aattgttctc 60
cttttgaagt tggttatggt ttttaaccac taactcctct tgatcttttg cctatgccta 120
atgtttctgt ttttaagcat aaagaaggtc aagcaaaggc ggactatgtg aagaagcttc 180
atgagagagt caaagatcaa attgagagga aaaataaaag ctatgctaaa caagccaaca 240

aagggagaaa gaaggttggtc ttctaaccgg gagattgggt ttgggtgcac atgagaaaag 300
aaaggtttcc ggaacaaagg aaatcaaagc ttcaaccaa 339

<210> 12057
<211> 238
<212> DNA
<213> Glycine max

<400> 12057

agcttctaga tyagttttgt ttgtttttct gacatcctgc gaaaagttat aatcatttga 60
atttctccag cgctcccgtt gcttaatatc gagcgtctag atattttatg tactcgaatg 120
gracatcggg gccaagcgtt atgacccttc gattttgtcg agagcttccg ccattcaatt 180
tccaacggcc aaatgaagta tgtcctccaa ccaaacattt gagggaaatg atatgacc 238

<210> 12058
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12058

tgctnnnnag ggaagctcct tatatcttcc acactttttg ggggtgggcca ttcttggatg 60
gccttgattt tctcagggtc cacttggacc ccatttctac caactacaaa ccctaagaaa 120
actatattat ctacacaaaa ggtacacttc tctatatttg tagagagggt gtttttccta 180
aggactgaaa gaacttgcct gagatgtcct tagtgatcat ctaggctcct actatacact 240
aaaatatcat caaaataaac aactacaaat ctacctatga aatcccttaa gacatgatgc 300
ataagcctca taaaggtggt ttggtgcatta gtgagccc 338

<210> 12059
<211> 348
<212> DNA
<213> Glycine max

<400> 12059

tattatcggc gacaacggga gtttttcctt gattcaattc aatgctttct ttattcttct 60
ctaattgtta aatattatta ctagctgttg ttgagaatag ggattagtgt ttaatttctg 120
attatatatg gcattattgg ttctgttgct ctctggttta ttttatttgt gacccaaaat 180

cattgtaggt gtggggaaga gttgtctact tttgaggttt tctgatggct cattcacaac 240
aagttttatc accaccattg ggtaggtata ttatgtgtag acaccttttt tttatcggtt 300
gtgaaaaatg ctgcagctgt ttcttgtctt gtttcaagat tcttacat 348

<210> 12060
<211> 340
<212> DNA
<213> Glycine max

<400> 12060
tagacctcac gccagctgtc cctccgttct cagcgtcatc ataaactcat gaagcgatac 60
ttcggcccat tccccattct ggaacgcatt ggcagcgttg cttaccgttt gcaactacct 120
gaaggggtctc gtatccaccc cgtcttccat tgttccttac tacgccctca tcacagacct 180
cttgacctcc caacctcttc ccttccggcg gatacttctt cccacacccc tatacttgag 240
ccactagcca tccttgactc tcgaatggac ttctctgttg acccccacac tcgtttcggt 300
cttgttcaat gggttggtct tcctccggaa gactccacgt 340

<210> 12061
<211> 322
<212> DNA
<213> Glycine max

<400> 12061
gaggggtgtt catatgttct caagactgga ctaatacatt tgctgcgcaa gtttcatggt 60
cttgcaggtg aagatcctct taagcatctt aaggagtctc atattgtttg ttccaccatg 120
aagccccctg atgtccagga agatcatatc tttctaaagg cttttctctca ttctctggag 180
ggagtggcaa aagattggct atactacctt gctcccaggt ccatttttag ctgggatgac 240
cttaagaggg tggtcttgga gaaattcttc cctgcatcta ggaccactgc catcagaaaa 300
gacatttcaa gcatcaggca ac 322

<210> 12062
<211> 348
<212> DNA
<213> Glycine max

<400> 12062

tcggacaact aattttaacga acataaaactt atatgaatta attattatth ctataactaac 60
aagacacata tatttttttta gtaattttatc acttaacaat ttataaattt agtgaactta 120
acttgaaata attaggggaa gagtgatata ttaaaaaaaaaa ttccataaa acccgtcagt 180
aagtaaaaat atgctaaaat atctcatatt aattggtaga tataatcaat gacttgagta 240
aattacaata taaagcgtga ataatcgaaa tgtaaactcc aaggatcatt acaatataaa 300
ttatgaatta tatgtcaaca ctttaaaaaac ttaattttat tattaataa 348

<210> 12063
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12063

acactataga aactcagctt gcctctgtnt tggctaggca ggtatcacia aagaaaagga 60
agatgggaga agaacgactc aaagctttca gagaagaagt agaaaaactc cttaatgcta 120
acttcatcag aaaagttaga tactccacat ggctcgccaa tgacaaatgg cgaatgtgca 180
caaactatac tgatctgaat aggggtgtgcc ccaaagatgc aatcctctgc ccaacattga 240
catgctagcc gatggagcgt ctgggctcta ggtgctaagc ttcttagaca cttgttctgg 300
atacaactag attagaatgc acgctagaga cgaggagaaa atgagattca tcaactgaaga 360

<210> 12064
<211> 344
<212> DNA
<213> Glycine max

<400> 12064

tggaacatat ttctgaattt taggccccct tattgattta gtcaaaatat ctgctggctg 60
atcattggaa ttaatgaatt cagtgacaat ctctttagac agtagcttct cccgaataaa 120
gtgacagtca atctctatgt gcttggttct ctcatggaag actggatttg aagcaatatg 180
aagagcagcc tgattatcac aatacaactt catttgcac actttgcaga atttcaactc 240
ttcaagaatt tgtttgaccc acataagttc acatgtagct acatccatag atctatatte 300
aacctctgca ctagatctag caacaacagt ttgcttctta cttt 344

<210> 12065
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 12065

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agctttttatc atgcaactta cccatgtaaa actccaattc ttattaaaaa gcaacataaa 60
aaacatatata agaattacat ctaagtttta tctttatcat tattagtagc acaaaactta 120
gatgcagttt cataaatatt ttgtgtggtt ctttgatcaa aattagagct ttaccctaata 180
aacttgtaac ttataatgac ttttaatgta aatctttatt acaaggaagt gaaactcaaa 240
ctactattgg agaacaacaa gttaatcatg atgatgtaaa aatttgatg tgtatgatta 300
tttttttgat attgatatga atgatttate agttttatta ataactaata ttataagaa 360
aacttaactg atttaccttt a 381
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<210> 12066
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 12066

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agcttgtgac ttgcataaac ttcttttcag tggatgacaa tagaagctaa aagttaccaa 60
gcatacatca aactgtttca aaaagtccaa ctatcatttt attcttaata aatgggagtt 120
accagtataa aataaactat ggctgcaaaa ttgtacttca aaaaaatata aaatataaacc 180
tgatcaaaga catcaatata gacttggtgc agagaatgag aactgcagaa ctgattaatc 240
tcatgatgaa tcttgtcata tatccatgtc ttatcataat gtacaccata gttgagcaat 300
gtctcaaaga caaatcctt atggagttga ttcacaacct aaaagaagaa tatgcatcac 360
tgctatgaaa ttattgaaga tgtga 385
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<210> 12067
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12067

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tggnnnnnntt gtgttactct tctcttgat caagaaattc atattattta ttattctttt 60
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tctcctctac caattgcac aaaagaattt ttctgggttt tttcttcaat ccttgagcaa 120
catattaata ccaagagaga ccatttatat gtgtgatttt aagagaaaga attgtctact 180
cttatataag aattatgcgc aatttgaaat ttatttattg atctatcttt atatattatt 240
tttattacct gtaattataa tcatctttaa ccaattnaat atattattat actaacattt 300
ttttcaaaat aaaaattaca atctattata ttaaaata 338

<210> 12068
<211> 341
<212> DNA
<213> Glycine max

<400> 12068
tggccaaagg gttttggtcc tgtatatata gtaagtatgc aacatattgc cttgtaaatt 60
gtaattaata cagtaattaa taatatatga catagcttat cctttccatt taactatgtg 120
aatgtgattt ttctgaaggc cacattacca gatggacaag atattgcagt caaaaggcct 180
tcacaaacat ctacacaagg attaacagaa tttaagaatg aagttatatt ttgttctaaa 240
cttcaacatc gaaatcttgt taaagttctt gggtgttgca tcaatgagca ggagaaatta 300
ctcatctatg agtacatgcc gaacaaaagc ctagacttct t 341

<210> 12069
<211> 367
<212> DNA
<213> Glycine max

<400> 12069
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gtttgatttt gagacaatag catttgctac tagtgacttc tcaagtgaca acatgcttgg 180
gcaagggtgt ttggccctg tatacaaagt acgtatgcaa ctagtttctt tgcaattaaa 240
agctaagaac aaacaaagaa catagcctga ccttttctgt ttgtcattta ccttctttgt 300
aaatgtgaat tttaagggc acgttaccag actgacataa tattgcagtc aaaggctttt 360
atatcat 367

<210> 12070
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 12070

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 cggaatggag aaggaagaga gagaggagac gccacttcaa ggagaagatg agtttagaaa 120
 aagctcacca ccataggagg tcatggataa gagcctggag gaagaagatg aatgaaggga 180
 gagggagaga agagcaggaa attttgtgct ctaaaagagc tctaaaatct gaagtttaat 240
 attcaaatga tcaaagttga aaaa 264

<210> 12071
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 12071

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 tcgggtgcac aacagttgga gagtctgcat tgactatagg aagttgaacc aggttaccaa 180
 aaaggaccat tttccctac ctttcattga ccagatgctt gaacgtctgg ccggtaaatc 240
 aactactgg tttcttgatg gctttt 266

<210> 12072
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 12072

catcatagga gctgtgcacg tcaaacagag ggggattcca actcttatag gtgactttga 60
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 actcaatcaa cttaaaataa atggatgaaga tgttgatgag gtgaccgtca tggaccatat 180
 acttctaact ttaaatcccc gtattgactt ccttggtgcc agcattgaac actactggga 240
 ttttgagacc atgac 255

<210> 12073
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 12073

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 atcgagactc tcgtaattga aaacagaagc tcgtagcaaa ttcaaacgac aataactttt 120
 tactcagatg tccgattatg tcccgtagtt tatccatacc ctcgtaattg aaaacagaag 180
 ctcgtagtaa attcaaacga caacaacttt taactcagat gtccgattga gtgctctaata 240
 atatcgagac gctcgaaatt gaaaat 266

<210> 12074
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 12074

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 aattttctta gagcttccgt tttaactacg agcggctcga tatattacgg gactgaatca 120
 gacatccgag gaaaacgttt ttgtcgtagt aatttgctca gagcttttgt ttccaataac 180
 aagcgtctcg ttatattacg ggacttaatt gtacatctga gttaaaattt aatgggggtt 240
 gaatttgcta cgaccttctc ttgcaat 268

<210> 12075
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 12075

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 taaaaagtta tggtcgtttg aattggctca gagcttcaac attcaatttc gagcgtctcg 120
 atatatttcg ggactcaatc agacatccga gtaaaaagtt gttgtcgttt gaattcactc 180
 agaggttcaa cattcaattt tgagcgtctc gatatatgac gggacttaat cagacatccg 240
 agtaaaaagt tattgcggtt tgaat 265

<210> 12076
 <211> 259
 <212> DNA
 <213> Glycine max

 <400> 12076

 agcttttgc atcctttgat aaaccttcga tagtgaccag tgaggcctaa gaaacctctt 60
 agctgcttga tattgagtgg tgtaggccac tctagaactg catgcgcctt agtagcatcc 120
 atagcaactc cttcacctga aactatatgt cccaagtact ctatctccaa tacaccaaaa 180
 gagcatttat acaacttagc aaacaaaaca tttctttcaa tactttgaat acaaccttta 240
 tatggcataa gtgttcatg 259

<210> 12077
 <211> 259
 <212> DNA
 <213> Glycine max

 <400> 12077

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 tgcggtgttc ccgtcgaggt ttcagcccag tgacggcgtc aacaccagag ccacctacgc 180
 tctcagagat gacggcaccg tcaacgttct caatgagact tggagtggcg gcaaaagaag 240
 cttcattgag ggcactgct 259

<210> 12078
 <211> 266
 <212> DNA
 <213> Glycine max

 <400> 12078

 agcttggact tctgtgttt tgggaacctc tccttctca ggtgtacca aaccaatca 60
 cctggttcaa gcacgacttt cttctgctt ttgttggctt gccttgata gctcgattt 120
 ttcttttcaa tttgaacctt cacttgcctc tgcaacttct tcacatactc agctttagcc 180
 tgtgcatcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatacac tatctc 266

<210> 12079
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 12079

agcttggtga cctttcacac tatatccact caaattccca taagctggaa agtcattaat 60
 ggtgcaaaat atcatcgcat gcaacctaaa agtctcacc tgatttgcac catacacatc 120
 aaccccgctc acctaaaact tacgcatgtc ttcaatcaaa ggagtaaggt acatatcaat 180
 atcggttctc ggctgtcttg gacgtgatat catcatagac aacataatgt atttgcgctt 240
 catgcataac gaaggaggaa ggt 263

<210> 12080
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 12080

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 ataggcaaaa gatcaagagg agttagtggg ttaaaacat aaacaacttc aaaaggagaa 120
 caattagtgg tgctatgaac agctctattg taagcaaatt caacatgggg taaacaagct 180
 tcccaagttt ttaagttctt cctcaaaaact gtctaagca aagttcccaa agtcctatta 240
 acaacttccg tttgcccac ggtttctg 268

<210> 12081
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 12081

agctttatga gagagttag atcaaattga gaggaaaaat aaaagctatg ctaaacaagc 60
 caacaaaggg agaaagaagg ttgtcttcga acccgagat tgggtttggg tgcacatgag 120
 aaaagaaagg ttttccggaa caaggaaat caagcttca accaagggga gatggaccat 180
 ttcaagtgtc tgaaagaatc aatgacaatg ttacaaaagt tgagctgccc ggtgagtata 240
 atgttagttc caccttcaat 260

<210> 12082
 <211> 265
 <212> DNA
 <213> Glycine max

 <400> 12082

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 tttttccctt tttcttttct ctggtgtttt tctttccata acttgaggga actcaactca 180
 tctaagattc tagataaagg gtctttatga ctagtaccct tgccattaac actagatgaa 240
 tgatgactca tgyttggttc taagt 265

<210> 12083
 <211> 262
 <212> DNA
 <213> Glycine max

 <400> 12083

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 atcgagacgc tcgaaattga atgttgatgc tctgagcaaa ttcaaacgac aataatattt 120
 tactcggatg tttgattgag tcccgttaata tatcgagacg ctcgaaattg aatgttgatg 180
 ctctgagcaa attcaaacga caataacttt ttactcggat gtctgattca gtcccgtcac 240
 atattgagat gctcgaaatt ga 262

<210> 12084
 <211> 263
 <212> DNA
 <213> Glycine max

 <400> 12084

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 ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120
 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180
 catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240
 catcttctat cagctactag tct 263

<210> 12085
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 12085

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 tcaatttcta gactctcgac atattatgcg cccgaatcgg acatccgtgt aaaaagttat 120
 gaccatttga atttctcgag agttttcgat gtttaatttt gagcgtctcg atatagtata 180
 agcttgaatc ggacctcagt gtgaaaagtt ttgaccatth aaatttcacg agagcttccg 240
 ttgttcaatt ccgagcctct cgac 264

<210> 12086
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 12086

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 gtcttggcat agggattgag cttcaacatc gcattgaggt tggtagagagg gttcttcttg 120
 agaggagctc tcttaacatc tttcttaatg ggcttgacca cggactggac ctcatcggag 180
 ttaatgatgc gggccaagtc cgagttaacc attctgggcc taggaagcag gtagcccttt 240
 ttcttctcag aagccttat 259

<210> 12087
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 12087

agctttgcaa cagatgccac tctactcaaa gtttttgaaa gatatgtgga caaggaagca 60
 caaatacgtt caccaggaga atattgttgt ggaaggcaac tgtagtgcta tgatacagaa 120
 gatccttcca caaaacaca aggacactag aagtgtgact tttccttggt caatagggtga 180
 agtcacggtg ggaaagactc tcattgactt gggagccagt atcaacttaa tgccactctc 240
 catgtgtaga aggttgggag 260

<210> 12088
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12088

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 ttcacettac cttcaacgtt ggggtgggagc ccacgttata tggatcaact ttactttgat 120
 ggtatgacaa tatgcagnta tgttggtttc ccaaactctt ttattactct aaccttgaat 180
 ccaaattggc ttgaaattgg tagattactt ttacctttga atctcaaate aacagacaga 240
 ccagacattg tatcacgaat tttcagattg aaatatgaac aaatgctctc agacttaaca 300
 aagggtcaat tactgggaaa agtgggttga tgtaagttga ctataatttt tattcttaaa 360
 cacaaatata agttgatcat ttggccactt ttctttattc tataatgcag atattaatnt 420
 cgaanatatt acaattngac tgatactttt tacagatatg aaatacaaaa tatacttacc 480
 atcgtaacat tatcatt 497

<210> 12089
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 12089

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 acctggaaca aagagtacat cagtgatgca agactgacct ccaccttttg ttttgataag 120
 gaccttccca attccttcag cagtcaagat tctatcatca gcaaatttga cttggctctt 180
 cacagattga tcaaggatga aaaaccactc tcttattcct gtcatatgaa tggagcaacc 240
 tgtgtctatg gaccaacaat taccacttgc ccattgtaatt tgagtagtta ccattagcac 300
 tactattaa gtgacatcat cttcttcttg agccaatttt gcatcatc 348

<210> 12090
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 12090

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attgcaagat gcaaggggaat gtagaagttg cagaaaaggc attcaattct ttattgcagg 120
tggaccctaa atattcttct gcttaagttc ctttagcaaa cgtatatgct atcagaggga 180
tgtgggggtga ggtcacaaaa ataacaagtt taatgaagaa ctgtaagtta aataaggagc 240
caggttgtat ctggattgag gtcacacatg aagtacactc attttttgtt ggagacaacg 300
cacatccaaa atctgaagag atttatgagc aaactcattt g 341

<210> 12091
<211> 367
<212> DNA
<213> Glycine max

<400> 12091
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ctatcttcag agtgggaatg cctctaacag cacttttgtc acggattatc ttcattgcctc 120
ttaagagcag atgtccaaac ctttgatgcc atattctgac ttcattctct ttggaggata 180
gacatgtgga ggagtagctg cgttcttggg gtgtccataa gtaacaattg tcctttgatc 240
tgctgccctt cattagaact tcaactcttct catttgtcac cactgattct gactttgtga 300
aagtgcatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
ccttcac 367

<210> 12092
<211> 354
<212> DNA
<213> Glycine max

<400> 12092
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ttgcattaat gttattcacg tttaaaaata gtaatgtagc tacatttggg cattaagtat 120
aataattgta aattgattat gattacataa tagatgaata tttcaatcaa atcaatttat 180
tttgaaaatc ttacatgcaa ttttttttat ttcaaaacaa attattttat aaaattccag 240
aaagccatgt gacaatgtgc tttctttaaa aatattttcg tatgcatata gtatagagta 300
tagattgaca gctctatcct tattggcttc ttcttttata tatttataac ttat 354

<210> 12093
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 12093

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tgatgagtct aatgctatct ctccaagaaa ggatatttta gataatattg cagaatcttc 120
agaacaaatg catattcatg gagaagattc taaaggaaaa ggagaaggaa gcaatgaaga 180
tcttccagtg gaagtcaaag caaataatga tattccaaga gagtggaaac cttcaagaga 240
tcattcccctt gacaacatta ttggtgatat ctcaaagggt gtaacaacta gacactctct 300
caaagattta tgtaataaca tggcttttgt atctatgatt gaacctaaa 349
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<210> 12094
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 12094

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taaaaagtta atttcgtttg aattggctca cagcttcaac attcaatttt gaggggtctcg 120
atatattgcg ggactcaatc agacatccga gtaaaacgtt attgtcgttt gaattggctc 180
agagcttcaa cattcaattt cgagcgtccc gatatatgat gggactcaat cagacatccg 240
agtaaaatgt tattgtcgtt tgaattggct cagagcttta acattcaatt tcgaggggtct 300
cgatatatta cgggactcaa tcagacatcc gagcaaaaac ttattg 346
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<210> 12095
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 12095

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gttctctcat catggactta atccttggct agacaaattg cactcgaaaa atgatagctt 120
tatcttttgg aaacttttagg ttgctattaa gacttttttag ccaaattgcct tcctttgcta 180
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cttctaccag agccatgtat ttttctctta tagtggacaa ggcaactgta ggtggaagtg 240
tagccttcca attgacaaga gaattaccaa ttataaatgc ataccctgtc acaaattcatc 300
ttgcatttag atttgtagcg tagttagaat ctaaattatc aaaaa 345

<210> 12096
<211> 314
<212> DNA
<213> Glycine max

<400> 12096
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aactttcata aatgagagag aaatgttcat ctaaagctta caagtcccta atattatcaa 120
atcctaaaat ttgagctcct agggagcaaa accatgtgtg tctcatagag agggcatcaa 180
ctaccacatt tgtttttccc tttttgtatt tgataacata tggaaatttc tctaggtact 240
ctaccatttt ttcattgcctt ttgtttaact tgctttgccc tctaattgtac ttaagtgaat 300
gatgatcact atga 314

<210> 12097
<211> 350
<212> DNA
<213> Glycine max

<400> 12097
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aatgtaccat gagaggacag agcacataga tgtgaaacta cacttcatca tagatgtgat 120
tgaatctgag aaggtgaatg tggagaaggg ttcaaccaa gaaaacctgg ctgatatgtt 180
caciaagtcc ctctctagtg tcaagttcaa gcactgcctg tacttgatca atttggaga 240
tgccataaagc agattggtag aagtgcagcc ctgaatcaca aggtaaacac ttgctgattt 300
ggagtcaagg tggagatttg tgggtgtgtga ctaaacata cattggcaca 350

<210> 12098
<211> 345
<212> DNA
<213> Glycine max

<400> 12098

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ctatacgaga catcttgcca aacaaagtca ggtaacgat aactcgcttg tgctttttct 120
tccatgctat atgtaacaaa gtcattgac cagtcatgtt tgatgagttg gaaaatgagg 180
ctgtaattat actgtgctag ttggagatgt attttcccc tgctttcttt gacatcataa 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctgtt tatctacgat 300
ggatgtaccc ggctgagcga tacatgaaga tcttaaaagg gtata 345

<210> 12099
<211> 342
<212> DNA
<213> Glycine max

<400> 12099
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ccttagatgg tcgaatcctt cacaacaaca gcagcaacaa caacaacaac cttattttta 180
gaatgctgtt ggcccaagca gaccatacat tctccacca atccagcagc aacaacaaca 240
acagcaacaa ccagaaaca acaaacagtt gaggtcctc cacaaccttc ccttgaagaa 300
cttgtgaggg aaatgactat gcaaaacatg cagtttcaac aa 342

<210> 12100
<211> 354
<212> DNA
<213> Glycine max

<400> 12100
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tagcatcact tatggcacta aattgttggg tcttcataa aaatattgga ggagaagctg 120
ctcataaadc tgggtggtgag ggcaactagc acatagtttt ttaaactctc ccagtatctc 180
atataggctt tctccactga gttgcccaat gcctaaaata tctttctga tggctcgtgg 240
cctagaagca gggaaatctt tttctgaga atactctctt gaggtcatcc cagctcgtga 300
tggaccttgg agcaaggtaa tatagccagt tctttgccac tccctctaaa gaat 354

<210> 12101

<211> 389
 <212> DNA
 <213> Glycine max

<400> 12101

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ttgtaacaaa ttttctacac ttggagtgat cacatgcagt cctcttgaac ccttaccacc 120
cactctgtca tcatgctgag actcaggaag cccaacaggt ttagctttct ctaattatc 180
tgaacaaaat tcaatggctt cttctacaat gtacctttca acaatagatg catctggatg 240
atatagattc ttgtataacc cttttaagat cttcatgtat cgcttaaccg ggtacatcca 300
ccgtagataa acaggaccag aacatttgat ttctcttgcc agatgcccc acaagggaat 360
catgatggtc aaaaaagtgg gggaaaaaa 389
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<210> 12102
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 12102

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gcaaggtaca tgaaggacac gattatgagc aagagaaata gtgctcaaatt tatcaccaaa 120
aatcgagga atagtgtgag aaactttcag cttaaacacac aaggtctgaa tttgttggac 180
ctctaaagta gctggagcaa ggttccagta cttagcttca gtgcttgaac gagcaacaac 240
agtttgcttt ttggaccacc aagaaaccat gctgggtcct aaaaagaaaa aagcattgaa 300
ttagagcccc ctgtcatttg gatccgaggc ctaatttaca tcacaatagg cttgaaaaat 360
aaaaag 366
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<210> 12103
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 12103

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agcttctcgt cagtgggtact ttaagtttca tgggataatt tcttcatttg gttttgatga 60
aaaccccatg gatcaatgca tataaccacaa ggtagtggg agtaaaatat gctttcttgt 120
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tttatatgta gatgatattt tacttgcagc caatgatcgg ggtttgctac atgaggtgaa 180
 acaattttctc tctaagaatt ttgacatgaa ggatattgggt gatgcatctt atgtcatcgg 240
 cattaagatt catagagata gatctcgagg tattttgggt ctatcacagg aaacctatat 300
 taacaaaatt ctagagagat ttccggatgaa agattgttca ccaagtg 347

<210> 12104
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12104
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 aattaactaa tttcaacact tcctcttaat tcatattgggt acaagacatt actcctagcc 120
 tatctctcat ttccttaaatt ttgatacact tcaaaggctt tgtcaacatg tttgctagtt 180
 gatcttaaga tctacaaaac tcaagctcaa acttctcctt attcacatga tctctcaaaa 240
 agtgaaaactt ggtctcaata tgtttacttc tcccatgtgt cactgggtgt tttgccaaagt 300
 caatagttaa cctattatta attaacaatc 330

<210> 12105
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12105

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 tgtgctccat gagaggtttg atcaaattgga gaatagagat cataatgaag aagaaaggag 120
 gagaagaggg aatgatggtg ttcttagaca aaaccgaatt gatggtataa aactcaacat 180
 tcctctcttt aaaggaaaga atgatccgga ggcttacttg gagtggaaga tgaaaataga 240
 gcatgttttc tcatgcaaca actataagga ggaccaaag gtgaagcttg ccaccatgga 300
 gttttccaac tatgctcttg tgtggtggaa caagctacaa aaggagagag caagaaatga 360
 agagc 365

<210> 12106
 <211> 354

<212> DNA
 <213> Glycine max
 <400> 12106
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 gggattaggt cattcttttc atcctgaatg attttcgtgc cccctttctt tgggtaccacc 180
 tggattgggc ttaccaagt actatcagaa atggggtaga taatccaagc ctctaaaagc 240
 ttgagcacct ctctcttcat tgatgggtta aggtctctct tgggctgtct gactggtttg 300
 taatcttccg ccatcattat ggtgggcata ttagaaaacg ggtgtaatct ttg 354

<210> 12107
 <211> 344
 <212> DNA
 <213> Glycine max
 <400> 12107
 tgacactata aaactaagct tgtaggtaaa gtctcacgat tgcacgtgtt gatgcatcaa 60
 ttgttagctg tggctatacg agacatcttg ccaaacaaag tcaagttatc cataacttgc 120
 ctgtgctttt tcttccatgc catatgtaac aaagtcgttg atcctgtcaa gtttgatgac 180
 ttggaaaatg aggtcgtaat tatactgtgc caactggaga tgtattttcc cctgcttttc 240
 tttgacatca tgattcacta gattgcgcat ttgggtgagag aaatcacatg ttgaggactt 300
 cgttatttgc ggaggatgta cccgggtgag cgatacatga aaat 344

<210> 12108
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 12108
 ttaatcgatt accatgagca tataatcgat taccaatgtt ttaaaacggt agatttcaaa 60
 tttcaagagt cacaacttgt gataaaacat tttcaaatca tttcaaactt gtgtaatcga 120
 ttacacaata cttgtaatcg attaccagt tttctaaacg ttgggttttca aatttaaaaca 180
 tgaagagtca catctgttga tgtgtaattg attacactac aatggtaatc gattaccagt 240
 gacttatttt gaaaaaataa attaccaaaa gtcacaattc ttaaagtgac ttgtttctga 300

agatttttttc aaaagtcaca acctttaagt gactagtttt caaaagagtc acaactttta 360
gagtgactaa ttttcaaaag agtcaca 387

<210> 12109
<211> 349
<212> DNA
<213> Glycine max

<400> 12109
agcttctgta ttcaatttcg ttcattctcaa tatattacgg gacttaatcg gacatccgag 60
tlaaaagtta ttgttggttg catttgctac gagcttccgt tttcaattac gagcgtctcg 120
atatattacg ggactcaatc caacctccga gttaaaagtt attgtcgttt gaatttgcta 180
cgagcttccg ttttcaattt ctagtgtatt gatattattac gggacttgat cgaacattcg 240
agttaaaagt tattggcatt tgcatttact cacagctttc gttttcaatg acgagtgttt 300
cgatatatta cyggactcat ccgagttgaa agttagtgtc atttgaatt 349

<210> 12110
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12110
ttctgccttc tgggtatgac accataatct atggcttttt ctctctctct cttaatcttg 60
aacctctatc tttntgtttc aagcacaagc aacaatttgt gttatcaagg ctttgaagtg 120
gtggaagaag accctaaagc ctaatatgat tgagatccat tcagcacaag aactgggtcca 180
ttctttgggc aacgctggcg attcattgct tgtggttgat ttctattcac ctggttggtg 240
aggctgcaaa gcccttcate ctaaggtagt tttgtttttg ttgtttggtg ttggaaaagt 300
catattctta taattttcta ttactaacia aatgcttcat tttttttctt aggtntttcg 360
ttttttgtta caatatttga cttgctttca tcatgcgcga ctag 404

<210> 12111
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12111

tcattgaatt ggttgtgtta ttgaagaaga tgcttctga acaaaacaca ttgcccanaa 60
atcactacga ggcgaagaag attttatgtc ctgtgggaat ggagtaccaa aagatccatg 120
catgcactaa tgattgcata ttatacagaa atcagtttgc agaaatgcat aagtgcceca 180
catgtgggggt atcatgggtac aaagtcagg ataacaaatt tgttgatggt gcaagcaaaa 240
gcaatagtca tttagcaaag gtgtgctggt atcttcttat aataccaagg ttttaagcgat 300
tgtttactaa tggacatgaa gcaaaaaacc ttacatggca tgtagatggc agaaaaagtg 360
atgaattgct ctgacatcca gctgat 396

<210> 12112
<211> 364
<212> DNA
<213> Glycine max

<400> 12112
cgcttattct ggtgcatat atacttcacc aatgggtcaa agcggcttct tattctaattg 60
tcacgagaag ggtgggggtt agattcataa agatggagct gatgtgtcta tacgaactcc 120
ctaggaagat cattactgac aatggcaccg atttgaacaa caaatgatg cacgatatgt 180
gcgaagattt caagatccag catcataact ccacccctta tcgaccaag atgaatgggt 240
ctatataagc tttcaatcag aatattaaga agattgttca gaagataacg gtgtcataca 300
aagattggca tgagatgatg cctttcacct tgcacggata tagaacctcg gtgcgaactt 360
ctac 396

<210> 12113
<211> 379
<212> DNA
<213> Glycine max

<400> 12113
tctgtatgct taactatgta tggcaaaact ccattactgt tgctcaagac atacaagtga 60
gcttgtaaca catcttctac acttgagtg atcacctgca gtctcttga acccttacca 120
ccgactgtgt catcatgccg agactcatga aaccaccag gtttagcctt ctctaagtat 180
tctgaacaaa attcaatggc ttcttttgca atgtacctt catcaataga tgcttggga 240

cgatatagat tctttgtata cctttttaaa atcttcatgt atcgctcaac cgggtacata 300
 caccggagat aaacaggacc acaacatttg atttctctga ccagatgcat aatcaagtga 360
 atcatgatgc aaacaaagt 379

<210> 12114
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12114

gtgatctatc caccacggcc accaccatca ttntagttnt tctcttattt taatattact 60
 agtattttga ttccagccg tgtatttggc tatattatta tgacatttga acaatatagt 120
 atttctttat ttgcatggtg tgtttgaaaa attatgaatt atgttatatg actatgtgat 180
 ttttctatat atttgatcta gtcatgtttc ttgcttcatg attggtttat attttttcca 240
 tgattgttgt gtgaatgatt agttgtattt gtatgtttca tacttggtac gcactttggc 300
 tttttattgg tgccaaaggg ggagagaaat aggggttaaa tcaaggtaat gaatntaatt 360
 tcaagtgaag catatatcca aaaacaaagg gggagaatgg aaat 404

<210> 12115
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 12115

cgcacatatc tcttttgatg tttaagaaaa ttacacatgt ctttcttgta tttttaatac 60
 ctacacaaac tccctaaatg tcgtctcaac atttggcagt aacaagtcac atacattaac 120
 aattttgatt aaaaaatatt aaaatatgtt tttcttcctt ataaatatga aaatgtttga 180
 aattaatcat tacaaaactt tttgtctata ttccattctc gcaaaattta aatgttattt 240
 ttatgtttga gactaagttc aagttactaa aatttacgtg tatgttatta tagaatgtgt 300
 caattttttc aacttttttg catcatttat atgtataaac catgcagaaa cattgttttt 360
 gcattatata attgatgtaa aaaagtaaaa aaaaaacatg a 401

<210> 12116

<211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12116

tcttacaaag catacggctt tctggatgta gatgatgata tctatacaga tggatcttat 60
 atatctatat atctatagat agatatatag atatagatat atagatatag atcatacaat 120
 gaagtaccgc acgagtgggt atataggaat ccaaactctgc cgaatcactc atgttatgat 180
 cttctacatc ctaggtcttc cggttccttc atctggctta tgttcttcat gtagcattca 240
 gactgaatga ctctatgaaa ttacgtcgct acttccacat ggtacgggta acgtaggaga 300
 catctctant tttcccgggg gaatccttag aattacacaa gctagcttca at 352

<210> 12117
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12117

tactcagctt tactttgttt gctctgtttg gggtttccaa gcgtagaga gaaggggaag 60
 agattgtagc ctccatttca ctgtcaacgt gcgagactaa tttctctctg caaaacaatt 120
 atttcataaa tcccaacggc agtgatgtgc gaaaaatggg ttttgaaggt ggtgtccaaa 180
 tttcacaatg gtcccacggg tgacgagtcg gggatcgtag ttttactgag atagatttta 240
 ccacggtggt atccaaacat gattgattca aaaggtgaac tatcaaatec attaattact 300
 atgtacaata aaagagtttc aggagtttga caagtttcac aagataaact ntgtaaaggc 360
 aaatatcata agaatgagag ttgaattgtg attntcaaaa 400

<210> 12118
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12118

tgtacaagat tattgcaaag gtcttggcaa atatactagg aaggtcttga gcaaggtggt 60
 ggatgataga caattggctt ttttgggtga aaggaataat atatttgatg ggatcttggt 120

tgcaaatgag gttgttcatg aagctaaggt tgagaaggaa catgtttcat tttcaaggct 180
 gatttcaaga aagcatgtga ctcggtgaaga taggaatttc taacctatat gctacatagg 240
 ctaggagttt gtagtaaatg gattagatgg atgtggtggt tctacaatc ttcactacc 300
 tctatccttg taaacgggat cccaatggaa gaattntatg ctaaaaaagg acttcgtcaa 360
 ga 362

<210> 12119
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12119

tcaactcatgt gtccaagtcn ttgatgccac aggggtgaat tattgacaac ctcaagtaatt 60
 gttatcatat cctcatctgc aattatgtaa agagatcatt gcttctttcc atgagccaca 120
 acgagattgc cttttgttac cttccaagct ccatctccaa aagcgggtgta atgcccccca 180
 tcatccaact gccctataga tattagatctt ctctttaagg caagaatatg tctgacatta 240
 tgcaatgtcc atagggatcc actggaagtc ttgatgtcaa tatcacctct tccgacaatg 300
 tcaagagatt ttccatctac aaggtaaaact tttccaaatc ttctagaaat atagtttagac 360
 aataaatctt acaggactat ccaagct 387

<210> 12120
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 12120

tgcaagctta accatggaac ggtatgagat aattaaagat attgggtcag gaaactttgg 60
 tgtggcaaag ctggtcaagg aaaaatggag tgggtgaatta tatgctatca agttcattga 120
 gagaggcttc aaggttctat tttcaaattc catgtatctt ttcttttgtc atatcttaat 180
 cttgtcttgt gtacatatgt tttttagatt gtcctttgtt aatgggggttc tattggggtt 240
 tgcagattga tgaacacgtg caaagagaga ttataaatca taggtccttg aagcatccca 300
 atatcattag atttaaagag gtacggaatt ggagacgttt ttggtttcaa tgagtataaa 360

ctcaaagtgt aattatttgc

380

<210> 12121
<211> 368
<212> DNA
<213> Glycine max

<400> 12121

tgtgctattc caagttcatt aatcatacct ttaatccaga ttgcttcctt cacaccttca 60
gctagggcca tgtattatgt ttcagttggt gaaagagcaa caactgattg ttgatttgct 120
ttccaactga ttgatgtacc aaacaaagta aacacatata ctgttaagga cttccttggtg 180
tctacatttc ttgcaaaatc tgcactctga tagcctgtga ctactgcttc atgtgttgtc 240
ttcttgctact ttaaaccagc tttcaaagat ccatttagat accttagtgt ccacttcaca 300
gcttcccaat gtgcgctgcc aggatctccc atgaatttgc ttataatact tataacatga 360
gccaaatc 368

<210> 12122
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12122

aacagttctc taaccattcc aatccattca aatcatacaa ctgctcattc aaatcattct 60
cacactcatt tcataccaaa caatcaattg catatcattn tcaatcaatt cactgttcaa 120
acacactttt tgtacaagca aacaactcaa agtgccatgg ataagagctt ggaggaagaa 180
ggagatgaat gaaggagag ggagagaaga gcacggaatt ttgtgctcta agagagctct 240
gaaatctgaa gtttaatttt taaatgatca aagttgaaaa aatgcacaca catggcttct 300
atgtatagcc taagtgtcac acaaaattgg aggggaagatt gaatttctat tcaaattttt 360
cttgaaattg aaattgaatt 380

<210> 12123
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12123

tttgaattat caatatccaa acttgcttct acaccataa ttcttgcacc taattggaaa 60

tatgggttttg agctcatatg ttacgcaagt gattatgtag ttgggtgtgt cttgggacaa 120

aaaaaagaag acaaaatttt tcatgctata cattatgcta gtaaagtctt taatgagcat 180

caagtgaatt atgcaacaac caaaaatgaa ttactagcta taatctatgc attggaaaaa 240

tttagatctt atctcatttg ctctaaagtg gttgtttata cagattatgc aactattaag 300

tatcttctat ctaagcccgga ttccaaacca aggcttatta ggtggatact tatgttgtan 360

gaatttgatc 370

<210> 12124

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12124

gagaagcttt cttgagaaga ttcttagaga agctagagct tagctacaca cacccttcta 60

atagctaagc tcatctcttc cttgagatga taagatagag cttagctaca cacacaccct 120

ataataggta agctctcccc catgccaaaa tacataaaaa tacaaaaaag tccctactac 180

aaagactact caaaatgcct tgaaatataa gactaaaacc atatactact agaatgacca 240

aaatacaagg tccaaaaagaa ggaaaaacct attctaatat ttacaaagaa gagtggaccc 300

aatcttggcc catgggatca gaaatctacc ttgaggttca tgagaaccct anggccttct 360

ntaacagctc tagcctaate ctctttgagg 390

<210> 12125

<211> 398

<212> DNA

<213> Glycine max

<400> 12125

ttatcggcct tgtatggtct gaaacaagct cccatagctt ggaacaagag aatagacacc 60

tttctcttgc aaattggatt catgaaatgc actactgaat atgggtgtgta tgttaaagga 120

gaaagtcttt cagatatcct catagtgtgt ttatatgtgg atgatttact gataacagga 180

aaggattgca gtgctatctc gacattcaag caagagatga agtctaagtt cgaaatgtca 240

gatcttggag aattatcata ttttctgggc atatagttca agaggacaaa ggctggaatt 300
 tttatgcacc aaagcaaata cacaattgat gtcttaaaga ggtttcagat gcttgactgc 360
 aactcagttt taactcttgt tgaaactagt gctgtgct 398

<210> 12126
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12126

agctcttgct acaacctttn tctccccctt tggcaacatc aaaaagccaa agaactcgga 60
 aatcaacaca gttataacaa tggagtagca agatataagt atcagagtat taaatacaat 120
 aagccaaact cataatcaat aaaataatca aaccagaatt caaataacat aaaatgtcaa 180
 caaccacaaa atatccaaga ctgaaattta aaaacacaag ataaataagc aaaatactta 240
 gcataataat gtaaattcta agaaactaaa aacccaaaata cacggcttat aaaagataaa 300
 taagcagaat ctaaaatcta agaagacgga ggaggtggtg gaagatcgaa actctgacga 360
 atgtatccga catcctcttc a 381

<210> 12127
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 12127

tggtgatgcg gccttatctt gagatacacc cattctccct ccttaatctt tgaaggtagg 60
 tgacgattat tggcatactt tgatcatgta ttctgagctt tgtttagatg aaacttcaac 120
 tgattaagtg gttcatctct ttccataaga tcataagtca ctgcctcaac taggacttcc 180
 cctggaatga accttgccaa agatgggggtg ttagaccata aactatttca aatgggggtac 240
 acctagcagc tccctgggtga catgtattat accagtattc tgacatggga taaactcagt 300
 ccaatgattc cacaaaacct aacaacaaaa cat 333

<210> 12128
 <211> 294
 <212> DNA

<213> Glycine max

<400> 12128

tgtgacacta ctcaagcctg actcttatga gaatttcac tggtcagatt ttttaaaaag 60
gaacccttac cattgccac aaatgcacca actcagctaa ggaacaaaaa gcaagggttt 120
acatcatgag gaggtgtgtt gccatgttgg gttggtggca caagcatggg gattcatgaa 180
agaagtgcac agatcttgag cttagttttt attgaattat gaccttttat tggcctactt 240
tgaatactat aaattcgatt gtaattacaa gttgactaac gtgagttata agat 294

<210> 12129

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12129

agcttaaaca ttcaaantg agcgtctcgt tatattacag gactcaatca gacatccgag 60
taaaaagtta ttgttctttg aattggctca gaggttcaac attcaattnt gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
agagcttcaa cattcnaatt cgagcgtctc aatatattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcggt tgaattggct cagaggttca acattcaatt tcgagcgtct 300
cgatatatta cgggactgaa ccagacatcc gagntaaaag ttattgtcgt ttgaattggc 360
tcacagcttc aacattcaat ttcgagccgc tcgatatatt ttcggtactca atcagacat 419

<210> 12130

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12130

gatcctctta gtcacctgcg gcatgcaagc ttanggaat tactgaggag gccaaaagtt 60
ntgcaattgn gaacagggct cttgctgcac tatntgtaca tacaccagcg ggtgagctgc 120
agcgtcaaat tagatcctgg cttgcagaga gttntgagtt tctatcttta acgggagaag 180
atgcatcagg ggggtcaact ggtcagttgg aacttctttc aactgcaatt atggatgggt 240

ggatggcggg acttgggtgct gctcttctctc cccacactga tgccttggc cagctattat 300
 ttgaatattc aaaacgtgtc tatacttctc aattacaaca cttgaaggta tgcctctagt 360
 tagttctgtg ttgcatgact tataaatgca tacctcacia gttctcgatg gaagccttgt 420
 ttacttttagg actttgttga gagatgacac tcatacattt cattgcattc aaatattaca 480
 atagtctaaa cataataccg ag 502

<210> 12131
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 12131
 tttagaaaat tcaaattggc atttcttttc actcgaaggc ctgatcaggc gcatcagata 60
 tagagacgct cgaaattgat caacggaagc tctcgagata ttcaaattggc cataactttt 120
 agctcggagg tcggatttag gcacataata tatcgagacg cccgaaattg aacaacagaa 180
 gctcttgaga aattcaaattg gtcattactt ttcactcgga ggtccgattc aggcgcacat 240
 cctatagaga cgctcaaaat tgaacaacga a 271

<210> 12132
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12132

agcttgagan tgaacaactg atagctctcg atatattaga aggtctacct ttgacacga 60
 agtcagattc acgcacataa tatatcgaga cgctcgaaat taaataacgg aagctgtcga 120
 gaaattcaaa tgctcattac ttttctctcg gaggtccgag tcaggcgcac aatatatcga 180
 gacgctcgaa attgaacaac ggaagctctc gagaaattca aatggtcata acttttgaca 240
 cggagggtcag cttcacgcgc ataatatatt gagacgctcg atattgaaca acagaagctc 300
 tcgagaaatt caaatgggtca taacttttga cccgaaagtc agattcaggc gcataatata 360
 tcgagacgct tgaattgagc aacggaagct ctcgagaaat tcatatagcc ataacttttc 420
 actcggatgt cagagtcaag cgcataatat a 451

<210> 12133
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12133

agctnttgca agctggaatc atttatccta tctccgacag ccaatgggtg agtcccatcc 60
 aggtagtccc gaagaanacc ggcctcaccg tgataaaaaa tgagaaggat gagcttattc 120
 ctactcgagt gcagaacagt tggagagtat gcattgacta taggaggctg aactatgtta 180
 ccaaaaagga ccattttcca ctgccattca ttgaccagat gcttgaacgc ctggcaggta 240
 aatctcacta ctgtttcctt gatgggtttt ctggttatat gcaaactact attgctcctg 300
 aggatcagga naagaccaca ttcacctgcc ccttcggcac ttttgcttat aggaggatgc 360
 ctttcggcct gtgcaatagc cctggtacct tctgcggtg catgattagt attttttagtg 420

<210> 12134
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12134

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 aaagatgatg acaaagggtga tgacaaaaag ctcanaggtc aatcaaagaa tgagttcaag 120
 atattcaaga taaaatcaag aacacatcaa gattcaagag gaaagttaat ttcaagaatc 180
 aagattcaag agatcaagat tcaagactca tgactcaaga atcaagagaa ggcttaatca 240
 agataagtct ganaagggtt atcaaaaatt gagtggcaca tggatttttc tcanaacatg 300
 tttacgaaag aagttttact ctctggttat cgattaccag agtggtgtaa tcgattatca 360
 gtagcaaaat ggatttgata aagttctcat atgagattac aacgtttcaa ttgatttcaa 420
 aaagctgtna tcgactacaa tattttggta atcgatta 458

<210> 12135
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12135

agcttcttag tttcggatta tgcaactgag tttgtagcta cctcatgcac tctctaatg 60

actataacat ctttctggc gctaaactgc tgggagttgg aaaccatctt ctcaattaaa 120

tttctggctt cagcaggagt catgtctcca agggctccac cactggaage atctatcata 180

cttctctcca tattattgag tcttccataa aaatattgga gaagctactc cgaaatctaa 240

tggtgagggc aactggcaca tagttntttt aaatctctcc cagtattcat acaggctctc 300

tccactgagt tgtctaatac ctgagatata ctttctgatg gctgtgggtcc tagaagcagg 360

gaaaattttt tctaagaata gtct 384

<210> 12136

<211> 279

<212> DNA

<213> Glycine max

<400> 12136

ttgtttttat acattcagtg tcatattaaa atatttttat atttgtcaaa aggaatgctt 60

gcaatatatt ctgttttgta aagaagtaag gaaatttatt aaattgtgag tgaaccaaac 120

atttcgtaaa attcacgtta attatatcta atattaaaaa ataagttaga aatatattaa 180

tatttttctt gtcaaagtat agtagatctt ctcgggtgcta gtgattttga ttaatatata 240

ttaacaatct atccaaaata tgaatatgtc tatatatta 279

<210> 12137

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12137

agcttcacag cggagaggag ataacacctg cacttttgaa ggcaattaaa gattccagaa 60

ttgccatcac tgtgctctct gaagactntg cttcttctc attntgctta gatgaactta 120

catccattgt tcaactgcgc cagtataatg ggatgatgat tataccagtg ttttataagg 180

tgtatccttc tgatgtcaga caccagaagg gtacttatgg agaagcattg gctaagcata 240

agataagatt tccagaanag ttccagaatt gggagatggc tctgcgtcaa gttgctgact 300

tgtctggctn tcatctcana tacaggtacc caatgatacc aatcttttta tgttttaatt 360

tttattggaa ttaattaagt tactcgtctc acaanttaat gttcaaatat taataacaga 420
 gatgaatatg agt 433

<210> 12138
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 12138

tctggtggga catcttgact tgetttccaa ttgacatgc accacagatt ctgccttctt 60
 ctattttcag attaggaatg cctctaacag cacctttgtc aatgattttc ttcataacctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattctct ttggagaata 180
 gacatgtgga ggaggaactg gtttcttgag gcgtccatag gtagcaattg tcctttgatc 240
 tgctgacctt cattagaact tcaactctct catttgcac ca 282

<210> 12139
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12139

acaatatacc ttctcaacct cagcagcaaa atcaaccaca gcagaacaat tatgacctct 60
 ctagcaacag atataacct ggatggagga atcacctaa cctcagatgg tccagacctc 120
 agcaacaaca acagcagcct gctccttctc tccaaaatgc tgctggccca agcagacct 180
 acattctctc accaatccaa caacagcaac aacccagaa acagacaaca gttgaggccc 240
 ctccacaacc ttccctcgaa gaacttgtga ggcatatgac tatgcaaaac atgcagtntc 300
 agcaagagac cagagcctnc attcagagct taaccaatca aatgggacaa ttggctacct 360
 aattgaatca acaacagtcc cagaattctg ac 392

<210> 12140
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12140

agcttaggct gcanacatth ataataagacc ctctcagcag cataaccaac aacagcaaaa 60
taattatgat ctttcaagca acagatacaa tccagggttag agaaatcatc caaatctggg 120
atgggcaagt cctccacaac aacaacagcc tgttctctct ttccagaatg ttgttggtcc 180
aagcaagcca tatgttctct ctccaatata gcaacaacaa caacaacagt cacaacaaag 240
acaacaagca actaaggatc ctcttaacc ttccttagaa gagttagtga gacaaatgac 300
catccagaat atgnaatth agcaagagac aagagcctct attcagagtt tgacaaatca 360
gatggggcag atggctactc acttgaacca agctcagtcc caaattctga caaattgctt 420
caccactgta cataatcnaa aaatgt 446

<210> 12141
<211> 279
<212> DNA
<213> Glycine max

<400> 12141
tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120
gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcatcttct 279

<210> 12142
<211> 396
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12142

agcttctcga tatattatgc accttaatcg gacttccggt tgataagtta tgaccatntg 60
aatntctcga gagcttccat tgttcaatth cgagcgtctc aatatattat gcgcctgaag 120
cggagcttcg tgtgacaagt tatgaccatt tgaatatctc gagagattcc gttgttcaat 180
ttcgagcgtc tcaatatatt atgcgcctga atcgacatc cgtgtgacaa gttatgacca 240
cttgaatntc tcgagagctt ctattgttca atttcaagct tctcgatata ttatgcgcct 300

gaatcggact tccatgtgat aaggtatgac catntgaatt ctcgagagct tgcggtgttc 360
aatcagagcc gctccatata ttatgcgcct gaatcg 396

<210> 12143
<211> 272
<212> DNA
<213> Glycine max

<400> 12143

tccattgttc aatttcgagt gtctcgatat attatgcgcc tgaatcggac ctccgaatga 60
aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120
atattttgcg cctgaatcgg acctccgagt gaaaagttat gaccatttga atttctcgag 180
agcttccgat gttcaatttc gagcgtcttg atatactatg cgactgaatc taacctcgt 240
gtgaaaagtt atgaccattt taatttctca ag 272

<210> 12144
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12144

ctgcagactg agaaaagagtt tgtatggagc ttgtatgaaa attcctatga anagcattgg 60
gagattgaag accggattac agaaatgcag ataagggttt gcagctggca agatgagttt 120
ggcattaata caatgataga agataacgat gcacgagctt tgatggctgc aacagcttta 180
tattcttgca aagagaccct tgctaagtng caagagacac aggacaatc atctgaagag 240
gctaaagaat cctaccaaag ggttaaggaa gctcgtgaca tgtttgaaac cattagaggc 300
caacttcatt ctaaactttt atagtcagaa gaccaaggaa ctgaaccata aagcatagag 360
gaagaagaca tgtctagctt ggaagagaaa ggcattgagcc tgatgtgga 409

<210> 12145
<211> 267
<212> DNA
<213> Glycine max

<400> 12145

cgccacggag ttttccgact atgctcttgt gtggtggaac aagctacaaa aggagagagc 60

aagaaatgaa gagccaatgg ttgatacatg gacggagatg aaaaagatca tgaggaagcg 120
gtatgttccg gctagttact caagggactt gaaattcaag ctccaaaaac taaccaag 130
caacaagggg gttgaggagt atttcaagga aatggatgtg ctcatgattc aagcaaatat 240
tgaagaagat gaggaggtaa ctatggc 267

<210> 12146
<211> 271
<212> DNA
<213> Glycine max

<400> 12146

ttgaacaacg gaagctctcg agaaatttga atggtcataa catttcactc ggatgttcga 60
tccggggaca taatttatcg agacgtcga aattgaacaa ccgaagctct tcgacaaatt 120
agaatgtgcg taacttttca cgcgaatgtt cgattcgggg acataactca tctagacgct 180
cgaaattgaa caacggaagc tctcgagaaa tttgaatggt cataagtttt cacacggatg 240
tccgattcgg aacatattta tctagacatc g 271

<210> 12147
<211> 276
<212> DNA
<213> Glycine max

<400> 12147

tgtgtagcga taattctagc tgggaaaaga ttttcgcacc tattaccag atgtcgggtgc 60
agcttgataa tagtttctc ctcttcttg gtgtagtttc ctcttttgag gtttggcctt 120
aggtaattca gccaccttag tctgcaactc tttccacatc tcgcaagacc taacaaatta 180
ataacaacaa caacaaagta aaaccaatta caatggattc atatatgatt tagctataag 240
ctgtgcatgt atataattaa atattgaata tatggt 276

<210> 12148
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12148

tgtttagctat aagaaatatg gaaaccaata ttacaaatat aataagattg ttagtttaag 60
 gtaatgattg aaattaaatt aacaaatata tttaattttt tagttataaa aaatatcgaa 120
 accaaaattt aaaatctaag ataggataag attggttagtt taaaataatg attgaaataa 180
 aatttaaaaa tatattagat ttggttagtta taataaatat tgaaaccaa atttaagatt 240
 taaaatttat ttattaatcc atatgtnta attattttta attattcttt tagaaatatt 300
 ttataaatta tatttctaga aattttttac ttcttttaatt ttatctatag aaatctatac 360
 attagaagat ttgatattta atngaagat gtatttagat gtttat 406

<210> 12149
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12149

aaaattgtag gaaaactatt gccactaaaa cgttnttcta ttctaagaat atcataaaca 60
 agaacatatg ccatatatat tcattaactg aagaaagtat aaatatacat accgtatctg 120
 caaccacatg atcaagagat ggaacataac catgcaatcc atcactgect ccatgacctt 180
 aaaaataaaa caaatcattc cagatccatc acaaaatggt aagtacggaa tggaaaaaga 240
 aatctttaaac tacctatcca gtccattgca tagacaccaa agttgcatga tgttaatagc 300
 cttgcanagt ccgcatactt tccactgaaa aatgagtgcc aagtcagaga agt 353

<210> 12150
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 12150

agcttgtagt ttaccttagg agccacatag ttcggaactcc cacaagttgt cccacaagtt 60
 gtccgaagga tactcgcccc ctatcagaat attcaaaagt ttgaagcagt ttggtattat 120
 tatatcttac atgagtcgaa gtcatatata aaagctaatt tgggtgacaag ctcacctgct 180
 caggaaatgc actcaaacca taatcggaat tctttatatt tccatagtgaa tcaagtaaaa 240
 gattttcagg ctgcacaagg caaaaagaaa aaaagaaaat tagaagatat cacaataagg 300
 acaacaaaca atttctcaga tctcactcaa tgcaaacctt taaatctcag tgataaaactc 360

ccttactgtg gcaataatct aca

383

<210> 12151
<211> 314
<212> DNA
<213> Glycine max

<400> 12151

ttctcgagag cttccgttgt tcaatttcga gtgcctgtat attgatgcgc ctgaatcgga 60
catccgagtg aaaagttatg accatttgaa ttctcgaga gcttcctatg ttttaatttcg 120
agcgtgtcga tatattatac gcttgaatcg aacctcagtg taaaaagtta tgaccatttg 180
aatttcttta gagcatccgt tgttcatttt cgagcgtctc tatatgtgat gcaccttaat 240
cggacctccg cgtgaaaagt taggaccatt tgaatttctc gagagcttcc gttgttcaat 300
ttcgagcgtc tcga 314

<210> 12152
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12152

agctntacta tgcagagaat atccaaggaa aataccttca tctgacttag catcaaattt 60
tcttaagtta tcttttccat tattcaatac aaaacattta caaccaaaaga tatgaagatg 120
tgagatgttt ggttttctgc cattgaacaa ttcatatgga gttttcttta aaatgggtct 180
tattaaagcc ctatttataa tgtagcacgc agtgtaaacg gcttcagccc aaaagtattt 240
tggaagagga gtatcattta ataaagttct agcaatctct tccaaagatc tatttttctt 300
ttccacaaca ccattttgtt gaggggttct tgggtgcagaa aagttatgct caatcccatg 360
cttatcacan aataattcaa attcttttat ttcaaactca ccncatgat cactcctaatt 420

<210> 12153
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12153

gcttaagaat cattttcgga tcaagagaaa gattgttggg cagttggatc tctcattgtg 60
gattattgag ttgaccttgc ggatttaatt attattaata tgaatatgcc ctacctttac 120
attttaattt taattcatgg aattgattgt aagggtgtcg ccaatttatt ttttatatgt 180
ttgtttatag gtaagaattg aagatatata ccaagaaatt tacaattcac atacatattc 240
aatcaattga gttagattcc ttattgatat tgaccaattt attaatactt ttatataaat 300
gtcattattg ccttaaaaaa tgtcattatt ganacaatng gtactttttt tttcgagcac 360
gaaacaattg gtacttgttt atatccacat gttgtaaattg tctatttcca aatatgtgat 420
atagttggac agtatgtatt taagtatatt ttttaattct 460

<210> 12154
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12154

agcctgacag gttcagggtgc atgtgctgct actggnnggag gcacttgaat ttggttgcca 60
tacctcaagg tgatggcact cacatttttt ggattctgca cagtttgtga aggcaaattg 120
tcagaatttt gggactgagc ttggttcaac tgagtatcca tctgccctat ctgatttgtc 180
agactctgaa tggaggctct tatctcttgc gtgaaatgca tattctggat ggcatatgc 240
ctcactaact cttctaagga aggttgagga agagccatag ttgcttggtg ctttggtgcg 300
actactgttg ttgctgtac tggataggag gaagaacatt ggcttacttg gaccancaac 360
attctgaaaa ggagggacag gctgttggtg tgtggaggac tttccatcta catttgatga 420
ttcttcacct g 431

<210> 12155
<211> 281
<212> DNA
<213> Glycine max
<400> 12155

tgtagagcat cgategggtg tgggtgtagg ggggcacgta aaactgcacc tgctagtcag 60
gggagcatcc gttgctaccc atcacgtggc ggaggtgctt gccggcgtgg agggcctgag 120

ccaccatgcc ttgcattggt gattgaatgt tatgggtggg tgtggtggtg cacgtcaccg 180
 tgtcttggtg tccctgcaac ttcattgtgt gcattaatat tcttctcttt ggaagcacac 240
 caaccatatt ttctcttttc ttgcattca tttctttca c 281

<210> 12156
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12156

agcttggtgc aattcttcta ggctgggagt cataacatgc aatcctctag aacccttacc 60
 tccactctt tcgttatacc gagactcggg aacccaata ggttttgct ttntaatgta 120
 ctccgaacaa aacttaatag ctntttttgc aacgtacctt ttaacaatag atgcttcagg 180
 atagtgtaaa ttctttgtat acccttttat gatcttcatt tattgctcaa ccgagtactt 240
 ccattggtaa ataaacaaaa ccacaacatt aatttcctc accagatgaa caattaatag 300
 aaccatgatg ctgaaaaaca aaggaaggaa atacatctcc aatggacata agataataac 360
 aacctcat 368

<210> 12157
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12157

agcttcatct aagtaccctg ctctgccaaag tatatccact aaacatgaat aatgagttgg 60
 tctaggtccc aactatagt ctctagtcatt ttgtagaan atctctttac cctcgctccac 120
 taatccagaa tgactacaag ccgataaaac tgcagtgaag atgccctcat ctggtgtcac 180
 acctttacct agcatttcat aaaaaatgga gatggcctct ctccccctcc catgaattcc 240
 aaatccagta accataaccg tacaagcagg caaatttttc tcatgcatct catcaaacac 300
 acgacaagca canaaccaaa cttcacagtt agcatacatg ccaataagtg cccgtcccac 360
 aacaacattc acaacataac cctctttaac aacatatgac 400

<210> 12158

<211> 301
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12158

 gcaagcttaa gtattgtatt cccatttctt ttgtacagaa ctctctctcc tgggtggcnc 60
 ttaaggtaat ggagaattat ataggtatct tgtaagtga tttctcttgg acagtgcata 120
 aataggctca ccaagctaac aaaaaaagta atatcagacc ttgtgtgaga caagtaaadc 180
 aattttccaa ctgacgatg atacatctcc ttatccactt ctgcactgcc atcttcatta 240
 cccaatttaa tgtttgaatc catgggagta cctctcaatc gacccatcta ccttatattt 300
 t 301

<210> 12159
 <211> 278
 <212> DNA
 <213> Glycine max

 <400> 12159

 tcaaaagatc atcccccttga caacattatt gcttatatct caaaaggggt aacaactaga 60
 cattctctta aagatttatg caataatatg gcttttgaat ctatgattga acctaaaaat 120
 ataaaagaag tcatagtaga tgataactgg attattgcca tgcaagaaga actgaatcaa 180
 tttgaaagaa acaatgtgtg ggaacttgta gagaaaccta aaaattatcc catcatagga 240
 acaaaatggg tathtagaaa taagttagat gaacatgg 278

<210> 12160
 <211> 267
 <212> DNA
 <213> Glycine max

 <400> 12160

 tccattttca attaccagtg tctctatata ttacgggatt aattcggaca tccagtaaa 60
 aagttattgt tgtttgattt tgctcagagc ttctgttctg aatttccaac gtcttgatgt 120
 accactagcc acaatcagac atccgagtaa aaagttattg tcgtttcaat ttgctcaaag 180
 cttttgtttt caattttgag tgtctcgata tattacaaga ctcaatcgga catccaagta 240
 aaaagttatt atcgttagaa tttgctc 267

<210> 12161
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 12161

ttatagagag ccatgccaat agtatagtga atactattgt tataagtga ctctatcaac 60
 ggaagaaaac tctcccaact tcttttttc tctaagacac atgccatcaa aaggctctct 120
 agcgactgaa tggttcgttc agtttgcca tcagctctgag gatggcaggc tgaacttagt 180
 caaagcttgg tcccaatgc tctgttcagg ctctcccaa atctagaggt aaacctagga 240
 tctctatcag acactatgct agatggcaca ccatgta 277

<210> 12162
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12162

agcttgctaa ctctcatcac catatattgc tgtctaattc ctcttagaa tcatcacatt 60
 cagagtagta tactatagta gagactcttt aaattaatac tctgtcaatc aataaactct 120
 ctaaaataat aaatntttcc ggtcccgaca tgggccaatg caaaaaattg gaaaactcaa 180
 taaaataata agataataat ctttcgtgag atccctgtat tattttcggg cccaagaaaa 240
 tcataaatta ataattcata gaaactagaa acaaatatat tacactctat tgaaatatga 300
 ttcaatagtt gtctgtttcc tttatagtca agtctatttg gagctcatct ctaacttttc 360
 ttattgcac caatagctca ggtgttg 387

<210> 12163
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12163

agcttgctaa agcactgctn tcaactccaa ctnttgaaa ggtcaatgat gaanaataaa 60
 gaactccatt tatgcttgca aactgctgaa gtacaaaaag agtacctcca ataaaggcaa 120

ctgcaatcat acaaagaaaa tccacagcaa attttatget tcaaactttc aagtgccatg 180
 cacaagtaat gattataaat atgtatttgt ttataaaaag agaaagtttt gttttatgga 240
 gctaaattca tccccctatc cagctgaaac tattactnta atgtacttat ttttctctcg 300
 acatggtaag caatcta 317

<210> 12164
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12164

agcttaagaa aaagatggcc ttagcaaatt tcttatttcc agaaggggaat tctatcaata 60
 gacctccaat ctttaatgga gaggggtacc actactggaa aaccogaatg caaattttta 120
 ttgaggcaat agatctaaat atttgggaag ccatagaaat agggccttat atacgcacca 180
 cagtagaaag agtttcaata gatggtagtt catcaagtga aagcataact atagaaaaac 240
 ctanggatag atgggtctgaa gaggatagaa aacgagtaca atacaactta taagccaaaa 300
 acataataac atttgccctg ggaatggatg aatatntan ggtttcanat ngtaagagtg 360
 ctaaggaaat gtgggacact cttcgattaa cacatgaagg aactacaaat gttaaaagat 420
 ctaggattaa tgcactaact catgaatatg aatta 455

<210> 12165
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 12165

tattcaagca aatttacgta tggttgtcca tgttgcaaaa agttatcagg ggcgtggtct 60
 cagccttcag gacttattac aggtagcctt ttagaaatta aagaccttcc tttccctgta 120
 gcaaaggctg tttagtgtat ggttttctctg gtttgttata ttctaaattg tgaatatcat 180
 tcaagaattt tttggattgc ctagtatttc atcaattagt taaccaagat tcttgacttt 240
 tcttaaatgt gaaagagata cactaggata aaaagact 278

<210> 12166

<211> 277
 <212> DNA
 <213> Glycine max

<400> 12166

tcaagaataa tggcctcatc aaactattta tttcctgaag ggaattcaat aaataggcct 60
 cctattttta atggagtggg ttaccattac tggaaaaccc atatgcaaat ttttatagag 120
 gcaatagatt taaatgtttg ggatgcaatt gaagtagggc cttatattcc caccatgggt 180
 gctgggaata caacaatata aaagcctaga gaagattgga gtgaggaaga aagaagacta 240
 gtacaatata acttaaaagc caaaaacata attacat 277

<210> 12167
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12167

acccttgatg caacatttgg agagggttaat gaaacaatga gatgatgcgc tccatgagag 60
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggatgagaa gagggaatga 120
 tgggtgttct agacaaaacc gaattgatgg tattaactc aacatttctc cctttaaagg 180
 aaagaatgat ccggaggcct acttggtgtg ggagatgaaa atagagaatt ttttctcatg 240
 caacaactat gaggaggacc aaaaggtgaa gcttgctgcc acggagtgtt cggactatgc 300
 tcttggtgtg tggaacaagc tataaaagga gagagcaaga aatgaanagc caatgggtga 360
 tacatgggcg gagatgaaaa ggatcatg 388

<210> 12168
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 12168

tcggtattca atttcgagcg tctcaatata ttacgggact caatcagaca tccgactaaa 60
 aagttattgt cgtttgaatt agctcggagg ttcaaaattc aatttcgaac gtctcaatag 120
 attacgggac tcaatcagac atccgagcaa aaagttattg tcgtttgaat taactcagag 180
 cttcaaaatt caatttcgat cgtctcgata tattacggga ctcaatcaaa catctgagta 240

aaaaagttat tgcgtttga atttgctgaa agcttcaact

280

<210> 12169
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12169

caaactaaca tgggacctga aaaaaattac atcaaagacg cgaaacaatg gagcgaagaa 60
gtctgaagaa tggcctcaac actgtacctg tggttccacc caattctacg acacatacat 120
caactggacc gatcattcca tctcccgnnn tngngcccct ctttcaatcc aatcttgaat 180
agcatcactg atatgaggca cgacctacag aggaaaacac catcataaga ataagaataa 240
tgattctcat gacaataata atattaggac caacatggaa aatgaaaacc ttggcttata 300
aatatcatca cantataaac atantacaaa atnnnttaag ccnnncctga acngttttgc 360
tacctantct ccttttc 377

<210> 12170
<211> 417
<212> DNA
<213> Glycine max

<400> 12170

agcttggcta actctatagg agacatctta tatgttgcta tggatatggg tccagcacca 60
ggtactaggt ctatggaaaa ctctatctct ctcggttggt agactgaata taccctcaag 120
gaacacttca ggaaactctc taacaataga gaggccacac atggaaacct ttgtctgtat 180
ttctaagttg gacaagatca tgtacacttg agcttcttct tttaaagatg ccacaacttg 240
gttggcagag atacatcata tccttactca ctccagaatc atcaaacacc acagttttat 300
caaaacagtt taacaagaca tggttggaag ataaccagcc catacccaga ataacatcta 360
tttggctcaa agacaaacag atcagatcaa tctagaatgt tatgccagaa atttcta 417

<210> 12171
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12171

ttcagcacct aatgtcatat tatattgtaa ttgggtatct taacataaga gatttcagat 60
ggactttaat cctaatecca caatcgacct tttagcgaga tctctactta accctttggt 120
taaagtatcg gccaaattat gctgagttct cacaaactcc actgatata caccatgcat 180
gattaactcc cgaatcatgt tgtgtctaac acccaagtgt ctagacttcc cattatacac 240
ttgactatat gccttagcca aagttgctg actatcacac ctgatagaca tgggaggtat 300
aggtttgggc cacaatggaa tctcatagat cagatttctt agccactcaa cttctntacc 360
agctgctgct aaagctacaa attcaaattc cattggtgaa ttgtaatgc aggtctgttt 420
cttgatg 428

<210> 12172
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12172

agcttgctaa agctgaagaa ttcttctttt ctggattggg acccggagat acttcaaacc 60
cactaggatc aaaggtggca gctgtcacag tcaatgaaat attangtctc aattcacttg 120
gcatatatat ccttggcacg catagatttt gcacctaaact caccctagag ggacagagat 180
tctttagtgc ttggaaggta cctctacgt tggttttgtc gcgtccaatc aaaacgacaa 240
ccgtttatcc accaaagtgc tgaacaaggg tgatgtgttt gtgttcccaa tagggctgat 300
tcaattccag caaaacatan gttatggaaa tgctttggcc attgctggtc ttagtagcca 360
aaaccctgga gttatttcca ttgcaaagtc tgtgtttgga tctanacctc ctatctctga 420
tgaagtgc 428

<210> 12173
<211> 433
<212> DNA
<213> Glycine max

<400> 12173

agcttatgct gcaaacatct acaatagtat tcttatacct aagcagcaaa atcagccaca 60

acaaaacaat tatgacctct ccagcaacag gtacaatcct aggtggagga atcatcccaa 120
 ccttagatgg ttgaatcctt cacaacagca gcagcaataa caacaacatc cttatttcca 180
 taatgttgct ggcccaagca gaccatacgt tctccacca attcaacaac agcaacaacc 240
 ccagaaacaa caaacagttg aggctcctcc acaaccttct cttaaagaac ttgtgaggca 300
 aatgattatg caaaacatgc agtttcaaca agaaaccaga gctccattc agagcttaac 360
 taatcagatg ggacaattgg ctacacaatt aaatcaacaa cagtcccaga attctgacag 420
 attacccttt taa 433

<210> 12174
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 12174
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 cttccacat aatttccttg tcggaggggt tcaatttgtc gcccttggtc gaggacaaga 120
 ggaggaggga gatgaggttc gccaccgcgg ggacgccag caccgtcatt tctcggtcgg 180
 aggaggtggc caaggccggg aagttcgacg tcaggagtag cgagaccaag gtgaggcttc 240
 agggtcagga gcgtgggagg aaggggaagc tggcgattgc cgcggatata tactccgtga 300
 ctcttctttt tatggtgctg gacgccaaga aggaccatgg ggataccttg gagtataa 358

<210> 12175
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12175

agcttggatt tccttttagt atttaattta tccttcctaa gatggagcca aaccagtca 60
 ccttcattaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacttttgtt 120
 tggttctcta tttggttctt aacctctca tgcattctct ttacaaattc tgacctagat 180
 tccccctctt tatgtattaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240
 aggggattga acccatagac aacctcaaaa ggggactgct tgggtggtct atgaaccccc 300
 ctgtttagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360

agaagagccc ttaaaagggg ggataaagac ctattcacta cctctgtttg cccatcagnt 420
tgtggatg 428

<210> 12176
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12176

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agaagtcatg aacagagtaa ttgaagggtta ttacgagct ttgtttcctc gtaggccaac 120
atcgtggggg aagttcttac cctgngtaga actatctcat aatacttcat ggaatagcag 180
cacaggctca accccttatg agataacata tggacgcaag cctttttctt ttccagatta 240
tattgcaaga tctcttaaaa ttgatgcagt agatgatctt ctcttgtctc gtgatgaagt 300
gttcactact attcgccgga aattactcaa ggcacagggt tccatgaaga aaactgcgga 360
tgccaaacgg agagaggtaa ttatgagccc ggcagggtggg tat 403

<210> 12177
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12177

tttatgtggt cttgaatggc tatcacaggc ctatatatat gtgacttgag acacgaattt 60
gctaagagag tttttcagaa caaaaagggtc ttatcctctt ataaagaaca atcgttttat 120
cctcttacaa attccttggc caaattactt gtgattcaat aaggaattat ttgagtgtctc 180
aaattgttca atctatctct ttcaagagag atttcttctt ctcttcttctc tcattctgaa 240
aagggattaa gagaccgagg gtctcttgtt gcgaaagaat tctaaacaca naggaagggt 300
tgtccttgtg tgtttagaac ttgaanagga atttacaaga tagtggaact ctc 353

<210> 12178
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12178

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taacagcagt ggtgatcgca gcgagttcac gaacataagt ttaagaagag agtaacctgn 120
gycaaaaactg cttgctaaaa aaagctatcg ggtgtcttcc ttgggacagc accacaccca 180
taaccgaacc cgaggcgtct gtctccaccg cgaaagggtt tgtgtgctaa gactagagaa 240
tgtgtcatag catgcttcaa ttgttggaag gcaacatcag cttccacggg ccagtggaac 300
tcttccttgg tcaacagact tgtaagtggg gctgccaaaca ttgcgtagct ccttataaat 360
cttcaataaa agccaagca 379

<210> 12179
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12179

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gaatttctcg agagcttact tcgtgcaata tcaagcatgt cgatataata tacgacttaa 120
tcggacttcc attcgataag ctatgaccat ttgaattctt cgagagcttc cgctgatcaa 180
tttcgagcgt ctccatatac tatgcgccag aatcagactt tcgtgataca aggtatgacc 240
atgggaatat cccgagagct tccgttgatc aattttgagc gtctccatat actatgcgcc 300
tgaatcggac tcccggtgga tgagagatga ccattttaat taatagagag ctgcgggtgt 360
acaataccaa gcgcaactct ttattatgcg cctga 395

<210> 12180
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12180

agctntggag ttccaaggg ttattcttc ttcttctttt gtccagtctt cttctggctt 60
caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120

gacaactttc caggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ttggttccat ccagaattgg tgggtctgtc actgggtcctc cttctttctc 240
catgttcac cagaatttat tccctagatc tcaactcagt atttcgagtg cctgctctga 300
taccaattga aattctgata cagaggtcag atgtcgtacc ggatgtcacg acatcacgct 360
tcagaacatg gagattatat ttgact 386

<210> 12181
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12181

agcttctaaa ctttgtacaa gtatgattct ctgataccac ttgttagaca agtggcctca 60
gatattctaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120
ctatcttact ttttacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180
tcaaataga caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240
agagaaaatg caaactcagt tttatactgg ttcggtccaca cccttgtgcc tacgtccagt 300
ccccaaagca cccgcttgag agttccacta acttgtaaat tccttttaca agttctaaac 360
acacaaggac aacccttctt ttgtgtntag agattcttta caacaagaga ctccacagtc 419

<210> 12182
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12182

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ctgttaagga gatgatgac ctaactgtat tcattttttc cattggagcg aatgtctcct 120
cataattgat tccatagggt tgggtgtatc cctttgcaac caaccttgcc ttatatcggt 180
ccaatgtgcc attagcctga tatttaacgg tatacatcca cttataaacc attgtctttt 240
tgtcttttag tctctctaca atctccctc tcatttcttt ccaatgcacc catttcttca 300
ttcatggctc ataccaggt ctcatccttc aaggcttctt gtattgatgc agggattttg 360

atagaatcaa tagctgaaat aaaactatgg tgctgtagag aaagatnttt agtagacaca 420
aattgngata tatgata 437

<210> 12183
<211> 443
<212> DNA
<213> Glycine max

<400> 12183

tatagacaac tcaagccttt tttagtaaga atgtgggctc agtctctcaa aatattaatg 60
tcactagtct ccgtgctttc aattaagtcc attgcttccct cggggggtttt cattttgatc 120
ttacccttag ctaaagcatc caagagctgc ttagattgta gtctcaaccc atctatgaat 180
atgttgagct gtattggttt tgaaaaaccg tgagtgggat tcttccgcaa taaacctcta 240
aatctttcaa gtgcctcatt caaagattca tctggaaatt ggtggaagga agagatggta 300
gctttgcctt ctgcagtctt cgattcaggg aagtacgtct ttaagaaatt ttctactact 360
tcaccccatg acttcagact gtttccttta aaagaatgaa gccatctctt agcttctcca 420
actaaagata atgagaacag act 443

<210> 12184
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12184

atattggttg gggctttgct agaattctaat tcttacaatt ttntataaaa atttctatcc 60
aatagttgct atgctaactt ggtaataaat ttgctcagat tcaacaagac gcacattatt 120
aggttgggct aagcgattcg aaattattgg tggaattgct cgaggacttc tatatcttca 180
tcaagactct agactaaaaa tcattcatag ggatctcaag actggtaatg ttcttctcga 240
tagtaatatg aacccaaaaa tctcagattt tggtatggct aggacatttg ggctggatca 300
agatgaagca aacacaaata gagtgatggg aacatagtaa gcttttctat agttgggttat 360
ttttttatct ccccttttac aatggcttct agcttctcat gtggactcct gttttctatg 420
cagtgggtata tgcctcctga atatgctg 448

<210> 12185
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 12185

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agcttatgct gcaaacatth ataatagacc cccttagcat caaaatcaac aacaatagaa 60
taattatgat ctttcaagca acacatacaa tccagggttg aggaatcatt caaatctgag 120
atggacaagt actccacaac aacaacagcc tgccctccc ttccagaatg ttgctggctc 180
atgcaagcca tgtgttctc ctccaatgca gcaacaacaa agacaacaag caactgaggg 240
ccctctcaa ccttcttag aagatttagt gaggcaaatg accatctaga atatgcaatt 300
tcagcaagag acaagacctc cattcagagt ctaacaaatc agatggggca gatggcaact 360
cagttgaacc aagctc 376
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<210> 12186
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 12186

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gacactatgc tactcagctt gagcaattca aacaacaata actttgatat cgggtgtccga 60
ttctgtcccg taagatatcg agacactcgt aattttaaac ggaagctctg agaaaaatca 120
aacgacaata acttttaact cggatgtccg actgagccct gtaatatagc gagacgctcg 180
aaattgaaaa cggaagctct aagaaaagtc aaacgacaat aacttttaac tcggaagctc 240
gattgagcct tataatatat cgagacgctc gaaattgaaa acggaagctc taagaagagc 300
caaaagacaa taacttttaa ctgggatgtc cgattgagta ccgtaatata tggagacgct 360
cgtaattgga aacggatgct ctaataataa tctaacgaca ataactctta actcggatgt 420
ccgattgagt cccatattat atc 443
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<210> 12187
 <211> 278
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12187

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gagtaaaaag ttattgttgc ttgaattttt tcagagcttc accattcaat ttcgagcttt 120
tcgatataatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaatatg 180
ctcacagctg cggcattcaa tttcgagcgt ctcgatatat tacgggactc aatcagacat 240
ccgagtaaaa agttattgtc gcttgaattt gctcagag 278

<210> 12188
<211> 358
<212> DNA
<213> Glycine max

<400> 12188
agcttcttag tttcagatga tgcagattgg tttttatcta cctcatgcac tcctctaattg 60
actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
taatgggtggg ggtaactggc acatagtctt ttaaactctt cccagtactc atacaggctc 300
tctccactga gttgtctaatt acctgagata tctttcctga tgggtgtggg cctggaag 358

<210> 12189
<211> 432
<212> DNA
<213> Glycine max

<400> 12189
agcttcctta agaagattcc ttaagaatct agttcttagc tacacatacc tctctaattg 60
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa aaacatgaaa ataacaaaaa aaaaagtcct tattacaaag 180
acaactcaaa atgccccgaa atacaaggct aaaaccctat actactagaa tggccaaaat 240
acaaggccta gacgaaggaa taacctattc taatatttag aaagataagc gggctcatac 300
ttagcccatg ggctcgaaat ctaccctaag gctcatgaga accctagggc ctttccttgg 360
atctctagcc caatctactt ggagtcttct agccaatgcc cttgcggggg aggattgcat 420
caagttgtag ta 432

<210> 12190
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12190

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 atctatcaac atcactagag gaaaaacat cactaagcaa agtctaatta aacttttcat 120
 gccattgttt ttgtgcttgt ttcaaacgat atggaaattt taaaagttgt cacactttgt 180
 tttcttgatt agtgaatttc agctatgggt caaccnctn ngcggaaatc aaatgctaga 240
 gtctccacta agtgtgctta agtttcatga agcatgtaa gcatgaagga catgccccnn 300
 nnnnttcaat tgggtgtcac atgctaagtc tcacctccc cttaagcttg gtcaaattta 360
 attggattga acttgtggca tgtaattaaa tttctttcca acacacaca 409

<210> 12191
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12191

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 ggccttaaac agagaaacga atcaaggacc taaaaagga ttattaaaga ggtaaaaaa 120
 acggaaattg taaaacaaga ataacataat aacagtattt tacttgagtc ataacataat 180
 ttcttttata ttattattt gataatcgat acacattata agtatttagt ttactattt 240
 atattgttta ctagatataa aacttagacg gaatatacgc gttaaccgta aaaatcataa 300
 aaatgtcttt cgatagataa ttatattttc atgctagatt ttattgacaa atacgatttt 360
 tttttatcat gaatcataaa atttatattt tgattgtaag ttttttttat canatatata 420
 attntcaact taagataatn gtttatatgt tgacaaaa 458

<210> 12192
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12192

ctgcagcttc tgtccctgag aaacttttct tgattacaac agggagtga gattgctgaa 60

aaccctagcc ttgcaacaag tcttagggaa gtagacacgg agatggacaa gaaaatccgc 120

agtattgtga gtagcatttt gaaagacgcc tctgttcttg atgctgagaa agatgttcca 180

acatcctcca ccccgatgt tgctgtccct gaagctgatg aagatgtccc aacatcttcc 240

accccgatg tttctgtgcc tgatgctgag aaagatgttc caacatcttc cggcccaaat 300

gctgaagtac tctctttccc cagcaaagag agatcaacag aggaagatga tcaagccaca 360

gaggagaccc ctgcaccaag ggcacaagaa cctgc 395

<210> 12193

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12193

tatcctatct gttaaataca gggcaccctt gtctttatan tgcttggaca aaacagagaa 60

ataacagaat aaacttccat atggcatttg gtcacatccc aacaattcac caccttgaac 120

taacatccat ataggacaca aactgcaccc tccaaacaca catgatttta accccaacaa 180

tctacattga gcaagcttaa gcagtgatca aacttgctct ttggaactgg ctttgtgaac 240

atatcagcaa gattgtgcag agtgetgate ttatgaactt tgattcttct ctctgaccga 300

atgaagtgat atctaacatc tatatgtttg gttctatcat gatgaacctg atccttggcc 360

aagcatatag cactaatgct gtcacagtag atgttagcat attcttgatt aattctgaga 420

tcatttatca gacct 435

<210> 12194

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12194

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aaaagcctat gacaggtaat gagtcaagct caagtcatac gtattcaact caagccgagc 120

tcaagcctag taaagcttgg cttggccttg ctcatttcca cccctaataa tgaagaggaa 180
atggacattt ggggtgtacaa cacaacctac caaaagtga gttctagtga aagatgaggg 240
aatgggataa agtaagctag tcggcgcccg tcactttcct ctttcattca ttcattcatt 300
catttacttt tcctcacaca aattacctct gccatcaacc tgcactcacc aaccaactt 360
cttcccaaac cccaaacaga acaaaaatac aacaccttta attactctct tgctaaatat 420
at 422

<210> 12195
<211> 400
<212> DNA
<213> Glycine max

<400> 12195
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gatccatgac cacaaaatca gctggaaaga cttcacttt tatcagaaca tcctcaatta 120
ccccgtaagg tcttgtgatg gatcgggtcaa caagttgtaa agtcattctc gtgggcatga 180
tttccaactc tcacaacctt ctacacatgg agagcggcat taggttgcta ctggttccca 240
aatcaatgag agtccttctg atgtgccatc atttcttctt atttcttaaa ccttttttgc 300
accattttta ttactgatta gtcttaattg tcaaattaat taagcagttt tattatttgg 360
gcacattgag ctaatttgat gtttttaatc taatttcatg 400

<210> 12196
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12196

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caagttgaaa gccttggagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120
tttacctgng taaactttat cagagagaaa tcagaaacct ttgaagtatt caaagagttg 180
agtctaagac ttcaaagaga gaaagactgt gtcacaaaga gaatcaggag tgaccatggc 240
agagaatttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat cactcatgag 300
ttctctgcag ccattacacc acaacagaat gggatagttg agaggaaaaa caggaccttg 360

caagaggctg ctcggggtcat gcttcatgcc aaagaacttc cctataatct ctgggctgaa 420
gccatgaaca cagcatgtta ca 442

<210> 12197
<211> 327
<212> DNA
<213> Glycine max

<400> 12197

agcttaaaca ttcaatttcg tttctctcta tatattacgg gacttaatca agcatccaag 60
aaaaaattta ttgtcgtttg aatttgc tca gagattcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
cgagcttcaa cattcaattt cgagcgtctc gatatgttac gagactcaat cagacatccg 240
agtaaaaagc tattgtcgtt tgaatttgct cagagattca acattgaatt tcgagggtct 300
cgatatatta cyggactcaa tcagaca 327

<210> 12198
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12198

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ctatttcccc aattaaaatt ctatttcaat ttcaatgcaa gttacaagtt cccttaaaaa 120
tgaattctta aataatgatt caaatagaac aatctgaata taaattaaag caataataaa 180
taaaagagtt taagggaaga taaagtcaa actcaaattt atactgggtc agccacaccc 240
ttgtgcctac gtccagtccc caagcaaccc gcttgagagt ttcactatct tgtaatatcc 300
ctttacaagt tctgaacaca caaggacaat ccttcctttg tgttcagatn tctttacaac 360
aagagacctt cggctctctca atcccccttg agaatttaga aagaagagaa gaataaatct 420
ctcttgaaaa gatagattgg caatctgaca ctc 453

<210> 12199
<211> 380
<212> DNA

<213> Glycine max

<400> 12199

gttttagaggt attagttgac taattatggt ttattgcttc tgacttatta aggttttaggg 60
ttatttgaaa agataggggtt gcttgactaa ttgggttttag gggatatttga caaataaagg 120
tttaggggta ctgcagcaat tcgaatttaa gggatatttga ctaatgaggg tttatgtgta 180
gttgagttaa ttacgggtta gtgttacttg gccaatagg gtttatgggt atttgacaaa 240
ttacgggttac ttgactaatt aagggttatg ggtatttgaa aattaagggt taagggtact 300
tgacaatttg ggggttaggt gtatgtgact aattaagatt tatagggtact tgactaatta 360
aagtttagtg gtacttgact 380

<210> 12200

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12200

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tgaaggagac actagagaca gtggaagcag caaatgcag acaatagttg ttgtgatcat 120
tgtcatagta acattgcttg tcatttcttg tatgctattc gtggcacata gatgcttcag 180
gaaaaaggaa gatttgcttg agtctctca agaggattca gaagatgaca gtttcttgga 240
gagtttaact ggcattgcaa tccgttacag ctacactgat ctagaaactg caacaagtaa 300
cttctctgtg aggcttgag aaggggggtt cggttcagta tataaaggag ttctaccaga 360
tgggactcaa ct 372

<210> 12201

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12201

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cttcaactga gaacccatt ggttggtcca tataaacatc ctctctataa tctctattca 120

aaaaggcagt tttcacatcc acctgatgta gtcaccaattc ataatgggct actaatgcc 180
 tgataatcct aaataaatcc tttcgtgaga ctggagataa cgtctcttta taatcaatgt 240
 catctttttg agtaaatecc ttagcaacaa gtctagcctt gtaacgttca aagttgccat 300
 gagagtcaca tctagtcttg aagaccact tacaaccaac tctgttataa ccttttggt 360
 attctacaag gtcccaaaca ccattatgtt ccattggaac tatctctctt ttcattagcat 420
 taaccatctc tcaaaattat cac 443

<210> 12202
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12202

tagcagttca gtttcattgt gtacagaagg acatgatttc ttattttaatt ttgattcaac 60
 acatatttca catttcttat ttttttttat cattcatatt aattaaacct agttgttgca 120
 aattcataac atacgttgga ttaacatgtc ctaatctagc atgccatata tcataagaat 180
 caatcaagta agcaaaagaa gatgcattct cattaatcac tttagaaaca tatagtataa 240
 agagaccccg atcacaataa cccatcccca taaatacatt attcttggcc ataattatct 300
 tattagactc aaacctttcg caacaatgtt atagaaacaa ggtcaactct catagaggga 360
 acctgtagca cattattcat agctagtant ttcccacata tgagtntgag aagaaatata 420
 ccttttcctt gaaccagagt agttc 445

<210> 12203
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12203

agcttatgca tgcaagactt tcttatttca aagtcacttt aatagctcat attataaaat 60
 gacatacaaa catatgagtc cagctagcta tcttaaaca tatgaaactt aattttttgt 120
 gatagccttc aaactacaac aatgattatt atcttctttt ttaacaaatc tatatttttt 180
 tattacaacg tagctaattgt gggttatgtt gaattcaaatt ttctaataatc aatttttagg 240

atgtttttaga ttttaaagat actatccaat cttttttaaga tgtttatttt agaaattaat 300
 gtgttttttta tgttaagttt atgatttggt ataaaataga ggttttataa aaaaaattat 360
 caagcatgga atagatanga aaattacaaa ttttacacga aatattagta aaaaaatagg 420
 cttaattaaa ta 432

<210> 12204
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12204

tggcctagcc cacatcacat gttaagtgc aagcaattgc atacaaatgc tgacttttcc 60
 ttttaaaaaa ataataaaac aaagatattt gcgggtccca tgttgctcaa aacgtttcgt 120
 tttcagtttt cacatcttct gtaagtacat gaacatgtcc tgcaagggcg agagctggcc 180
 catntgatac tgaacagtgc caaaaaggta atcatccacg gaaagggttat tatcgtccaa 240
 gtaattaaac tgaaaatcaa acgcgttttc tagcttttagg tccagatcat cgttccactt 300
 ggggtcgctc tgcacctccc tctcgacagt gacatcgggc gaaaccacgt gctccgaact 360
 gctcgagtcc gtgttcaacc ttggcaccga atccgaagtc tccatgtaca attgctcatt 420
 tcttagctta tgaatctctg gcttcgtctc gttctcgtgc t 461

<210> 12205
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12205

tctaagtcac ctgcggcatg caagctttta atagaaaaga atatnnaaat attgatttaa 60
 agcaaagggg gtttgctttg ttgatttttt ttatttcatt tatattaata ttttttatat 120
 gtcaatttct ttttataaat ttagaataaa atcagtgaat tcaaatcaaa taccaagtac 180
 ttgagcattc tattcaaaac tctctcctat gcccatagct actgttcatg ttacgcgaat 240
 agcaaacatt attaatacat atttagcatt aagtcaatta tatatttaat ttagtttttt 300
 aaatgattga gtgttacgta taatttaaga attaatcaaa atatacagat tgtgttaaata 360

tttttatgtg actatmtaat cataaatcag tatttttttg gtattatctt aaatttagag 420
 ttaggttttt ctcattaatc atcgggtataa aaat 454

<210> 12206
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12206

actccttcgc atactgttnt ttatcacccc tgtccacgtt atgaagaaac acgtgcgtca 60
 caccgatcc ctttctccca cgcgccatca ttgcggcgga gtatatcacc gccatcctcc 120
 caggcgcggc cgcaaaatat cctcggcgcc catcaatcat gatcacatcc caatcacggt 180
 tgtacacctc attgggcagc gtgccaagtg ccagcttaca ccaccgatca cctttcagtg 240
 ggtggtcaga ggtgttcttg ctgacaccgg gacaataatc tttataagag gagaggaggt 300
 tcttggcct 309

<210> 12207
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12207

taatcaagat aagtatgaaa aggttntttt ttcaaattct gagtagcaca tgaatttttc 60
 tcaaaacatg ttaccaaaag agtttttact ctctggtaat cgattaccag attattgtaa 120
 tgcattacca gtacaaaaac ggatttgaaa aagttttcaa attgaattta caatgttcca 180
 attaatcca aaaggctgta atcgattaca atgttttggg aatcgattac tagtgccctt 240
 gaacgttgaa attcaaattc aaaagtgaag agtcacatcc ttccacataa aagctttgtg 300
 taatcgatta cactgatttg gtaatcgatt accantgatt gggtatgagt aaatcaaaag 360
 atgtaactct tcaaatgggt ttgactttt tcaaatggg ttaagtttt ctaannagta 420
 taactcttca aaatgatcct cttgaccaga catgaaga 458

<210> 12208
 <211> 369
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12208

agctngaattg gaaacnagat ttctnggttt atttggtaac ccaacnggcc atgaattaaa 60
aatgtgcacc tgcgccaga ctctgtgctt tatgtctctc tgccaaccac cacacagacc 120
tttgcccttc tatgcagcaa cttggagcaa ttgaatagcc tgaagcttat gctgcacaca 180
totacaatag acctccggaa cctcagtata caaaatcaac cacaacagaa caattatgac 240
ctgtccacca aaggaacaa tcccgggtgg aggaatcatc ccagccttat atggctgagt 300
ccttcacaac agctaccaca acaacgacag ccttatgttc agaaagtggc tggcctaagt 360
agaccatat 369

<210> 12209

<211> 343

<212> DNA

<213> Glycine max

<400> 12209

agcttgatga tgaatgtcta gttgcctttc atactttgaa agaaaagctt gtatcagccc 60
caataatgat tgcacctgac tggagcaagg agttegagct aatgtgtgat gccaatgatt 120
ttgttgagga tgaggttcta tgatagcggc gagacaagat attccacgcc atatattatg 180
ctagcaaggt tttgaatgag gcacaattga gatatgcgat tgttgagaag gatatgttgg 240
ccatcgtcta taccaactta taaccaaact tctctttatc aaatatcact cgagatcgct 300
tcattgggtca acgccttaac gaattctcgt tctcatattg aat 343

<210> 12210

<211> 420

<212> DNA

<213> Glycine max

<400> 12210

tgcattcttc ttggtcgggt acatgagcat atgcaatgct ccttatactc tcaagtgatc 60
aactcttggc ttcactccac tccatgcttc ttgtggtgtt tgatctttga cattctttgt 120
tggggagcga ttggacaaat aaacggcaca tgcaacagct tcggcccaaa attcctttgg 180
catattttta gccttcaaca tacatctagt catattaaga atagttctat tttttctctc 240

tgctacccca ttttgttggt gagatctagg aaccgttaga gggcgacgaa tcccatattt 300
 ttcacaaaat tcattaaatt cttttgatgt gaattcacca cctctatcgg atcttatage 360
 ttgattaca taaccactct ccttttccac aaaacttaaa atttttaaaa ctcaaagcc 420

<210> 12211
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 12211
 tctaagtcac cgccgctgca gcttgggaag taccgggctc tgttggttgg tattggtttt 60
 gctgacaaat agtgtagttg caaacaaaat ctttagtgct aaagtacatg tgttggtatcg 120
 agtggcctca gaataattaa gaaggagggg tttaattaat tattcctaag cctttactaa 180
 ttaaaaattt actcttctaa ggcttttact atgttggttaa gagaataagg agtagaagag 240
 aaacttaacc aaaagtaaaa gcggaaatta aaatgcacag cggaaagtaa aagagtaggg 300
 aagaaggaga caaacataca agagttttta tactgggtcg gcaacaactc gtgcctacat 360
 ccagtcacca agcgacctgc ggtccttgag atttctttcc accttgtaaa aatcctttta 420

<210> 12212
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12212

accaaacctg acatacctag cacatggaga gcaatgtagg cactctacaa ttctggcaag 60
 gctcaagcta taggggtcag caatttctct gtaaagaagc ttcaagattt gttggatgtg 120
 gcaagtgtgc ctccagctgt taaccaagtg gaattgcacc cttcattaca gcagccagaa 180
 ttgcatgctt tctgtaaatc caagggagtg cacttatcag tgagtgtgca aatttaaate 240
 caaacattta tgcattgtac atgaacaatg attttaagat cggaccagtg attgaaacta 300
 gttcaatggt tcgactgtag ttgaatcggg tttatatattt ttaaatataa tataatattt 360
 caactaataa aataatatat aattaanaaa ttataaatta atataaatga ttaaattata 420
 tatttcgtaa gataaaaatt aataata 447

<210> 12213
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12213

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agctatggag tttccaagtg ccaattcttc ttcttcttta gtccagtctt cttctggctt 60
caatccatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatecagtga ttgaggaag gccaccatcc ttgctttcca 180
grattcatag ttggttccat ccagaattgg tggctgttc actggtcctc cttctttctc 240
catgttcac agaatattatc tccctaggtc tcaactcagtg atttcgagtg cctgctctga 300
taccaattga aattctgata ccaatgccag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacatg catattatct ctgagtgtat g 391
```

<210> 12214
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12214

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agctnngtga ccctnanaga ttttggttta gtgtatncct tccatcttt gtgatttgat 60
tcaaaacagc ttttaacatt tttctgtcac aagataaagg gtctaagcaa taacccaaat 120
ttggtgctcc tccatagtgt gtagttgcat ggttgagagg gaacttaggc tccatagtgg 180
tcatgtggtt gaaaatgggg tttgtttggt tctgagagaa aatggagaag cacggcactt 240
gtcaaaactc atctgcatgg gtttgagttt ggtcaaaact tatgtaagag tccattaacg 300
caggaagagt tgaagatccc gtgtcctcat aacagctacc catgctatgt ttggctaaaa 360
cttcaactgg tttgtagaac accctacaca aaaccaatc tttctgcatg tacacaaggt 420
gcaaacatt 429
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<210> 12215
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12215

agctcgaggg anaacttgat ttcttggtca acctantaac tcagcttgcc atcaatcaca 60
aatctgcacc tgttgcaaga gtctgtgggc tatgttcttc tgcagatcac catacagatc 120
tctgtctttc tttgcaacaa tctggagtta atgaacaact ggaagcttat gctgcaaaca 180
tttataatag acttcctcag caacaaaacc aacaacagca aaataattat gacctttcaa 240
gcaacagata caatccaggt tggaggaatc atccaaatct gaaatggaca agtgcctcac 300
aacaacatca gtctatccct cgtttccata atgctactgg tctaagcaag ccatatgttc 360
cttctccaat gcaacaacag tagcaatagt ctcaacaaag accacaag 408

<210> 12216

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12216

tatggcgcca aaagataagc tacttatect gaagcatgtt gaagttggtg tttaaaaaca 60
ctgtatcctt gaatagcaga taaaggtcag cttctcaaag gcaagtaaga ctctaaaaat 120
tgaaaagcta taattggtgc acacaaatgt ttgggggcca gccccattga aatctgttgg 180
aaactcacgc tattatgtct cttttatcaa ctagtctacc aaaaaagtat ggggtttattt 240
tcttaaaaaat aaatctgatg tgttttctgt gtttaaaagg cgnaaaataa atatttaata 300
tcaaacaagt cttaacggta aaagactgaa atcttacaat ggtaaggagt atgatagtca 360
ggaagttata gacttctgtt ctgaacat 388

<210> 12217

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12217

tttgggtgca catgataaaa gataggtttt cggaacaaag gaaatctaag cttcaaccaa 60
ggggagatgg accatttcaa gtgcttgaaa gaatcaatga caatgcttac aaagttgagc 120
tgcccgggtga gtataatggt agttccacct tcaatgtctc tgatatacct ctttctgatg 180

cagatggaga tattcgattg aggacaaatc cttctcatga tggagagaat gatgaggaca 240
 tgaccaatag catnggcaag gatccacttg aatgacttgg aggacctatg 290

<210> 12218
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12218

gacattgaga tgctatatat tgagaaatgg aagttcttga gaaattcaat tggtcataac 60
 ttttcactcg gatgtcagat tcagagcaaa atatacagag acgctcgaaa ttgaacaacg 120
 gatgctctct agaaatttaa atggtaaaat nttttcacat ggatgttata ttcgacacat 180
 aatatatcga gacgttcgaa attcaagaat tcaaaaatta aagttctcaa gaaatataga 240
 gatgaaaaat tatgaccatg ggtgtacgaa tgagacccat gatatatcga tatgtcmeta 300
 attcmetaat tggccaatt cacaaattca cagagcccta acttttgaca tg 352

<210> 12219
 <211> 133
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12219

agtcctatta acaacttccg ttggcccatc ggtttgtggg tgacaagtgg ttgaaaataa 60
 catttagtgc ccaacttgct ccacanagtc ctcaaaaat gacttaggaa cttagagtcc 120
 ctatcactaa caa 133

<210> 12220
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12220

acaatcagtg tcatactatn gatcanaaca nagcatgtat aaatatgcaa tactagactc 60
 aaaatatgca acaaactacta gacctaaatc agtgtcacag aaattggaag aaaatatattt 120
 atccaagcac aaacttcaag ccttattcca tgtattgtgg ggaagtatat gctggccata 180

tgggtagagg tgtcatanag gagcangtat ggaggaaggg accttggact gctgaagagg 240
 acaagttgct tgttgagtat gtcangttgc atggtgaagg cagatggaac tctgttgcta 300
 tgcttgcaag taagaaacac caaactttnt tcacntgttt gtttcttaat atatatgatt 360
 ggattttcac atttataagt gacaatatag canaaaaaca actgannatt gtttcaactt 420
 ctactg 426

<210> 12221
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12221

ataataagtc anaatgtgta acacggatat ttctgttata tttatttaga aaggaaaatt 60
 ggctgcgtga attgctaact ttcttttggt actaaactaa actatttcac aactatttgg 120
 ggaacttggg gatattgaatg tgatttcatg gaaaagtggg cgagcttttc tgttntctca 180
 tgcaatgaac gttactgtag gaccaacaga agacagagaa ctaatgactg gtcttcacac 240
 tgttgctgat gtctactggt ctgactgccg tgaagtgcct ggctggaagt atgagagagc 300
 ctactaggaa tcac 314

<210> 12222
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 12222

ccttctcgct tagtcatctg ccttggtgtg ggcgggccac cgtctaaggc aatacatgct 60
 gagccatact acctggttgg tgtccaagat ggatcagtta agtatatggt tgagaagcct 120
 gcccttacgg gatagatcgc tcgatggcag gtgttgctat ccgaatttga catcgtctat 180
 gtcacctgaa agtgataaag ggaagcacct tggcagatta tctggcccaa caacctctca 240
 atgattatca gcccatgcat cctaagtttc cagatgagga catca 285

<210> 12223
 <211> 305
 <212> DNA

<213> Glycine max

<400> 12223

atgacaatct gaattgctct agagattcca ttgttcaatt tcgagcgtct cgatatatta 60
tgaatttgaa tcggacctcc gagttaaag atatgaccat ttgaatttct cgagagcttc 120
cgttgttcaa ttctgagcgt ctcgatatat gatgcgccag aatcggaact tcgagtgaaa 180
agttgtgacc atatgaattt ctacagagat tcccgtaggc aatttctagc gtatagatat 240
attatgcgcc cgaatcggac ctccgagtga taagttatga cgatttaaatt ttctcgagag 300
cctct 305

<210> 12224

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12224

nntgatgcaa cattggagag gttaatgaaa caacgagatg atgcgctcca tgagaggggtg 60
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
gttctatac aaaaccgaat tgatggtatt aaactcaaca ttcttcatt taaaggaaaag 180
aatgatccgg aggctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300
gtgtggtgga acaagctaca naaggagaga gcaagaaatg 340

<210> 12225

<211> 134

<212> DNA

<213> Glycine max

<400> 12225

tatatcgaga cycaagaaat tgaacaacgg aagctctcga gaaattcaat gtcataact 60
tttaacacgg aagtcgatt caggcgcata atatatcgag actcacgaaa ttgaacaacg 120
gatgctctcg agaa 134

<210> 12226

<211> 323

<212> DNA
<213> Glycine max

<400> 12226

ctatacaagt agccgtttgg ttccaaaacc gccgagccag atggaaaacc aaacaattgg 60
agagagatta tgggtgtctc aaagccaatt atgatgtctt taagcttaac tttggcaccc 120
tcaatcagga caacgaagcc ttacgaaagc aggtagaata ataatacaac atagtataat 180
attdagaaga attgatgttg agtctaatta attttaaatt aaaaagtata tgtgaatggt 240
gagtgagaaa acaaacttca tgctgaagtg tcttagtaat ttttgttctg ggctgcgcct 300
ttcaatctag aaactatgct cga 323

<210> 12227
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12227

acctctcctt cctcaggtgt acccaaacc aatcacctgg ttcaagcacg actttctttc 60
tggtctttgtt ggcttgcttg catagctcgc attnttcttt tcaatttgaa ccttcacttg 120
ctcatgcaac ttcttcacat actcagcttt agcctgtgca tcttttgctt aaacatagca 180
atgttaggca taggcaacaa atcaagagga gtcaaaggat taaatccata cactatctca 240
aatggtgaac aattagttgt gctatggaca gcccgattat aagcaaactc aacatgagggc 300
aaacagggct tccaagatat aagatcttct ttaaaacagt cctaagcagt gtgcctaaag 360
tctattgac tacct 375

<210> 12228
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12228

tattaaaaaa atttaattnt aatatatatt cagtataatg tttttacatt attaattaat 60
gagaaatcac gttagatata attatgactt tttaagtaat tataacaaaa ttttagcaatt 120
ntttttttac aattttgcta ttcataacaa ttatattctt aagtgacaat ataaaaaact 180

gtagtacat tctattctaa ttaaatttca ttatagaaat gcaaaattag atgtgtaaaa 240
 ttagcaatgg tttttgctnt atttgcattt gatgtttgat atatgttatg agcatcaatc 300
 gataatattt cacaagatga ttctaagtt agaaatgtca ccatctctag tgctgcatga 360
 cgaanatccc ataaaagaat ttcacattaa aatattagat gatcacaaaa ataattgatc 420
 aatcaatgct tgatgacgac attacaaaaa gtt 453

<210> 12229
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 12229
 tcgatggctt gtaatgatca cacagtgatg acctataatg tattgccgcc acttcttaac 60
 ggcgttgggtg atggctgcaa gctcgcgtac atatgttgag gatctcctag cttgggtgaaa 120
 actgcttgctt gaaaaaacg attgggtgtc cttctgaga tagcactgca cccatgccgg 180
 aacctgatgc atctatctcc acggtgaacg gtttgggtgaa gtccggcagt gctaacaccg 240
 gagtgttagt gacaacat 258

<210> 12230
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12230

cacgttgctt aanagncaact atcatgcgaa aaagatactg tgtccgatgg gtatggatat 60
 cacaagattc atgcttgctt gaatgattgc acattgtaca gaatcaattt gaagaattgt 120
 ccaaattgccc tacgtgtggg gtatcacgta caaagtcaag atgataagga ttatagtagt 180
 gatgaaaact caaagaaggg cccctatag aaagtgttgt ggtatctgct gatcattcta 240
 aggtttaagc gtgtntgcta ataaagacga tgcttangac cttacatggc atgcatatgg 300
 gagaaaatgc gacacaatgg tccgtca 327

<210> 12231
 <211> 351
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12231

atattcgaca nagtatttctg gttatctatc aatattctct cttagttata agtcgaaagt 60
tgaaaagttg gatactagct aatttaatta caatgattaa ttagattagt tgataattta 120
ataaataaat gtcaagtgac gtaaaatgat atatntaata tttctaatat atttaaattt 180
atttctaagt attaatacgc ttanaagtag gataacaatg ttntaaatta tgtattataa 240
aattntgcat agggtaagtt aacaaacagg ggaactntta ctttccctga ttcaatccaa 300
aaaaaaatta tgcattggaac taaatangat aatattaatt tacgaaaaac a 351

<210> 12232

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12232

agctngccgc cacggagttt tccgactatg ctcttggtgt gtggaacaag ctacanaagg 60
agagagcaag anatgaagag ccaatgggtg atacatggac ggagatgaat aagatcatgg 120
gaagcgggtat gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
ccaaggcaac aaggggggtg aggagtattc aaggaaatgg atgtgctcat gattcaagca 240
aatattgaag aagatgagga ggtaactatg gtcgatttc ttaatgggtt gactaatgat 300
atccgtgata ttgttgagct gcacgagttt gttgaaatgg atgatatgct tcacaaagca 360
atccaagtgg agcaacaat 379

<210> 12233

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12233

gagagattcc taagtattgg catgttccac ttngtctttt cccatatagc ttgcatccta 60
catagttaga atgtgaaaag ccaattatat ttaacgatgt acctttggga taccacaatc 120
caacattggt ggtgtcctta aggtacttaa tgatcatctt aacaactgct aagtgagatt 180

ccttaaagtt agcttgatac cttgcacaca agcaaact aagcataata tttagttggc 240
 tttcaattaa gtaaaaaagt gagccaatca tacatctata ctttgattca tccactaatt 300
 tacctgtttc atccgaatca agataagtgg atgttgccat tggagttcat gtntctttgc 360
 actcttccat gttgaatttc ataattagat ctatacagta tnnttgttga cat 413

<210> 12234
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12234

tggcactggc ttgtgttggc ntctgttaga tatttaaagt gctgctcccc ccatectaaa 60
 caatacattg gcaataagct tggacttggc attacctctg tagccatttg gggctacagc 120
 ttccatgcta agaactaaag ccagcgaaat tttgtgaact ctcggcagat ctttggccag 180
 gcttattggc agcaatatgg cgtgcaacc cattccactc aggttcacac tctttacggt 240
 gctccggaat ccaaacttgt taatgatcat tgatgtaatg gatggtgtag gacagaatag 300
 gctacagttt gacacaagga tgtcaaagct cttggataca ctntgtgttt cacaaggagg 360
 tctttgacaa ttctgaatag aaacgattca cttctgctt gcgcgcgcct catggaatcg 420
 tccgggggga gctcatg 437

<210> 12235
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12235

gtttgtggag attcagtttg atcaanaggg gagaatntca ggagctgcta tcataacata 60
 tntgctcgaa cgatctcgtg tctgtcaagt ctctgacct gagagaaatt atcattgctt 120
 ttatatgctt tgcgctgcac cacaagaggc acattacttc catttcggat aactaattha 180
 ggcttatata gttaagattt gcttccatgg tatgcgaatt tgatgtaaga ttaagatctg 240
 cttccaagaa agtaatgatt ttttctcttt caattaatac aagttagttc atgaataaga 300
 atattgcttg caagaaatta aagattggct gcatactcta ctatcttctg 350

<210> 12236
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12236

tcagcgtctc gatataattat aagcatgaat cggacctacg tgtgaaaatn tatgaccatt 60
 gaattatttg agagcttccg ttgttcaatt tcgagcgtct cgacatatta tgcgcctgaa 120
 tatgacttgc ctgtgaaggt tatgaccatt gaatatctca cagagcttcc gttattcaac 180
 ttcgagcttc tctatatgtg atccgcctaa atcagacatc cgagttaata gttatgagca 240
 attgaatttc tcacaagctt ctgtagttca atttcgagca tctcgatata ttatgcgcct 300
 gaatctgaca tctgtgtana aagttatgac cattntagtn ctatcggagc cttccgtttc 360
 aatttgagcg tctctatatg tgatgactcg aatcggacat cgagtagaag ttatgac 417

<210> 12237
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12237

tcttagtttc agatgatgca catgggtgtg tagctacctc atgcactcct ctaatgacta 60
 tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120
 tggcttcagc aagagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt acagagtcct tcataaaaat attggagaag aagctattct gaaatctgat 240
 ggtgggggca actggcacat attctcttaa atctctccca gtactcatac aggetctctc 300
 cactaagttg tctaatacct gagatatact tctgatggc tgtggtcctg gaagcangga 360
 atattttttc taagaatact ctct 384

<210> 12238
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12238

taccttgata tacttcagct gaattctgca nagacaactg atagcctgga tgaattgaac 60

tccactaatc aagttaagat atagacatgg atgaaaatgc tgattctttt gtggatgaat 120

ctgttatgga aaaggttctc cacaagagga gtttgaggat gcgtaaatgc aaagagcttg 180

gcaggttttg ttgatttct tgaattttcc atttggaat tgcatttggt atcacatgtg 240

cttggaatgg aatagtaatg atcaagagtg tgtgactgtt gggttanttt ttgtannatt 300

gttaatttct tttccattcc aatttcatat ccaaactatg agttagtct 349

<210> 12239

<211> 449

<212> DNA

<213> Glycine max

<400> 12239

tctctgatag ccaatgtgtg agtcccgctc agggtagttt cgatgaatac cggcctcgcc 60

gtgatcaaaa atgagaagga ggagttgatt cctactcggg tgctgaacag ttggagagtc 120

tgcattgact ataggaggca gaaccagggt accaaagagg accattttcc cctgccattc 180

attgaccaga tgcttgaacg cctggtaagt aaatctcact actgtttcct tgatgggtttt 240

tctagttata tgcaaatac tattgtcct aaggatcatg acaagaccac attcacctgc 300

cccttcagca cttttgcta taagaagatg ctttatggcc tgtgcaatgc cctggtacc 360

ttacagcggg gcatgatcaa tatatttagt gattctttat aacatttctt agaggtgttt 420

atggatgata tcaactgtata tggatcgtc 449

<210> 12240

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12240

gctctgatac cactngctaa acaagtgacc tcagatatct taagaagggg gggttgaatt 60

aatatattac aaattatttc cccaattaaa attctattta actttctatt caagttataa 120

attcccttaa taatgaatat cttagatgtt gattcaaata gaacaatctg aatatgaata 180

taaacaataa taaataaagg agtttaatgg aagagaaagt gcacactcag atttatactg 240

tgctggccac acccttgtgc ctacgtccag tccccaagca acccgcttga gagttcatta 300
tcttgtaatt cctttacaag ttctaacaca c 331

<210> 12241
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12241

tcgtccgaaa ctacgtgtcg agtctgtggc gatgagattg tatacatgga aaatggngag 60
ctgtntgtgg cttgtcatgt gtgtagattt cctgtttgtc gaccgtgtta tgaatatgag 120
aggagtgaag ggaaccagag ctgtccacaa tgcaacactc gctataagcg ccacaaagggt 180
tagttcagct ctttaagctt tgtgttatgt attaatgtat taggacaaaa catagatgca 240
gttccttaca tgcatttggg gatgttctca gattataaga attggagttt tatcttgata 300
atctgggtaa taaatgttta cattaaatgt ccaagtgggt ttgggaccac cgtgtttctg 360
accaaggata aaatngaaaa taaaaaaatc cgtcagtttg aagctgaaat tctaattctg 420
attagagaat aacaaaacac cttaaagaaat gcattcttagt atgataac 468

<210> 12242
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12242

agtgttatta tgtttataat atatgtatgt cttgagagna ttatgataac aaaattaatt 60
gaaaatcaat tagagaacat caacccttca aaattgtgtc ctctcatagt tgaagaanaa 120
aaagatgtca catctaatta ttcattnttt aagaaaagta catgtgattg atataattaa 180
tataatttat ataattctaa ttatagaaat tgaaaccaat tggatgatatc actataagat 240
aagagcacat angacaagga atgctctgat actaaatgga gtatttaatt taatgcacat 300
tcttttgaat aatttcaatt attatcttta tataagatat atggaatctt tgtattataa 360
aacttctata ggtgctgtgt tcgaggatgt ntctttacaa tata 404

<210> 12243
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 12243

ctgagagaac cactccaagt ctagatactt gggatttctc acattcttca caacatatat 60
 tatectaaag tcattcttct tactatcatc cataaacctt gtatcaagct tggtgagaac 120
 agcttgagag cactgaaatt ctgataccag gggacagatg tcgtacagga tgtcacgaca 180
 tcacgcttta gaacatgcag tttatgtgtg tccgtatgaa cagattaaac aagtaataac 240
 acaagagaat tgttaccag ttcgggtgcac ctcacctaca 280

<210> 12244
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12244

actcggagat ctgattcagg cgcataatat atcgagacgc tctgaaatga acaacggaag 60
 ctctcgagaa attccaatgg tcattacctt taactcggag tctgatttag gcgcataata 120
 tatcaagacg ctcgaaaattg aacaacggaa gctctctaga aattcaaattg gtcataactt 180
 ntcactccga gttcgattca agtgcattgat atatccagac gtcgaaatt gaacaataga 240
 agctctcgag aaattcaaatt ggccataacc tttaactcgg aggtccgatt taggcgcata 300
 atatatcgag acgctcgaaa tttaacaatg gaagctcttg ggcaattcca atggtcataa 360
 ctattaactc ggacgtccga ttcgagtgc aatatata 397

<210> 12245
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 12245

tgaatcggat gttcgattgt gtcccatagg atatctagac gtcggttatt gaaatcggaa 60
 gctctaagaa aagacaaacg acaataactt taaactagga tgtccgattg cgccctgcaa 120
 gatatccaga cgctcgaaat tgagaaccga agctctcaga taagtcaaac gacaatcaact 180

gttaactctg atgtcctatt gagccctgta atatctcgag acgctcgtta ttgaaaactg 240
 aagctctaag ataagtctaa ctacaataac ttttgactcg gatgttcgat tgagtcocgt 300
 attatatcta gactctcgta attgataaca gaagctct 338

<210> 12246
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12246

ctgctatatt tctcgttgt ttctggttca tgcaggagtt attaagctgt gacttacttt 60
 tcttgttatg tgaaattgca gacgggcatt ctgggacaag aggatttcac acgatgtcaa 120
 catatatget ctgggtgagg tatgctctgt aaatcaaaac cttcaaatac ttgtttcaat 180
 atgcttcgag gagcattgat aattattgat cctcgcaact ctaaaattat gctactaata 240
 tgaacttaca ggatatgtct tcaaaatcac tggtyggtgt gacaaacaag gattgccaat 300
 gaagcatgga gtgctaacga cctgctgtgt tcatcttttg ctccacagag gtagaactgt 360
 natgaagcat cgatcttcaa attgtgatca tttatcatat tataatgtga catcatctgc 420
 cacatttggt 430

<210> 12247
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12247

ctgcagctag tagacattca caccatgaat ccttattatt actacaccan aattcttcat 60
 gaatgatgaa tttcataaca ttaataggat acaaactntg tttattctta taactcataa 120
 aacaattata tatatgcttg gaattgattt aaaaactctt aagaaaacac ttagcataat 180
 aaaacactga acatcagcag ttttgaaata ataataatga taaaatctaa gtacattttg 240
 aaacaaatat attataataa taagataaaa naatctaata tattagcaag aattgaatct 300
 canaatggtg agtctataaa ataaataaga gaggtcatat ntatantttc aaataatcat 360
 aattaagtac gtagttataa ttgattgaat gtggggggtt ttttagtacg gataacatat 420

naaaatagtg ttttttttaa

440

<210> 12248
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12248

gctacttcaa catctgectg cagntatata atattgttat atgtatttat ttggatgaac 60
atacactcat taatgcataa ttaagaatta gacctgggct gcagtgatcc cttttacttc 120
gtataatct cctttctcaa gcctttgatt gtctatgtta acttctttgc ctctgagact 180
gtttaactct tcaacaggcc attgcaccaa ttgtctccca gtaaaatcga gccacacagt 240
tcgtggaatc gcctaattat tntaccagac acatacatgc atattacaat tcctttaatt 300
tgtataagga tacaaaaata aaacacttat agctgaatgc canacanaaa acatganagg 360
gagttagaga ttcagaatcg agcanagatt gagtaaactct agaaatatct ctctcaatcc 420
aggaaaaaaa atattgaana catatgt 447

<210> 12249
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12249

acactngtaa caacactttg cttgtcctan attatgtaga ttntccccctt agatgtacag 60
argataanac ttagtgaagt cacgaacaag atcacggtga ccttcaactt agtgaagcct 120
acactattag aaattacact ttcaacatcg gttattagga cattctacat cagttctaaa 180
accgatgtta aaagtgcggy tgttgaatgt atcatcgta agatcggttn tgaaaaatcg 240
atgttaacat aaatacaata acattgggtg tctaaatacc caatgttaaa cacaatgaac 300
tacaacaaaa aaagtgtatg cgtgatgaaa gttgacat 338

<210> 12250
<211> 368
<212> DNA
<213> Glycine max

<400> 12250

tcacaaagag aatcatcttg atatgataac tctggaagtt ctcttacaag gctatgcttt 60
tgaagcgttg agattaacct caagctagca tgaccaagct tcttatgtca aaccaataa 120
tgctctttga ctgagagtag gcatgaaact ttgggactag acagatcacc aagtttaate 180
ttatacagat ttcttgtct cttagcctag aagagtgaag agttttcctt gttctcaatg 240
atacacatat ccttgttaaa agtgacattg tatccactat cacataattt acttatgcgt 300
aagcaaatat gcttcaaccc tttaacaagc aaaacattat ctatgaagga taaggaggaa 360
tacatact 368

<210> 12251

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12251

nnngactggt cactaacacc aagaaaaatg cntttttctt ctttgtcacc tagctntctt 60
ctcttgtgat ccggaatgtg agcataggca acacacccaa aaatttggaa atgatctact 120
gctgggtcttt ccccgctcca tgcttctctt ggtgtcatat tttgaacaac aagtgtggga 180
cttctattca aaatatgaat gctccagttg acagcttcag gctagaaagt tttggaaact 240
ccactccttg tcaaaatact ccgcaccatg ttcttaattg tacaattttt cctctcgcac 300
acaccatt 308

<210> 12252

<211> 175

<212> DNA

<213> Glycine max

<400> 12252

agagattgaa gccttcattt tgtactgtct tcgtgcgaat cacttttctc tcttgataaa 60
tagtatttcg taaatoccaa cggtagaagt gtttaccatt gaatcgggaa ccaggtgtcc 120
aaatttcatt acgatccaat gggttatgat tccgggatcg tagttttact ggaca 175

<210> 12253

<211> 476

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12253

 agcttgcaat tacaaatgag gggcataaca aaaagtctat tatactacaa aggaagcaaa 60
 aaccaaacac aatagtgtcc gtaaaaaatg gttgaatttc caatggcaag tatagaacaa 120
 tttattctcg tttttttttt tctttttgaa tacttcaaat ttcattttgt ctcggttaat 180
 tytgggaaag caatattact atggtgttgg cacattttca tcttgcaatt gtggaagcac 240
 aagtaggata atctttgttt gaccaacttt ctttaattcg acaagcctgc attggtcttt 300
 caatttggac tacttctgca gtttcttct ccaattgcct acaatatctt ccaaacgttt 360
 ctacaccaac ctgaagtcta aaatctatgc caaatagaaa gctcatctcg aacctgttta 420
 attcagatgt gtcactcct ccaacttttg catagtangc attgttgtag aatctg 476

<210> 12254
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12254

 agcttgaaat acagaataga ggctctgagc ttaatcttac gataataact ttttactcgg 60
 atgtccgatt gtgtcccgta gtatatcgag acgctcgaaa ttcaaaatag aagctctgag 120
 caaaatcaat cgacaataac attttactcg ggtgtccgat tgtctccgt agtatatcga 180
 gacgcttgat attcaaaata gaagctctga gcaaaatcta acgacaataa ccttttactc 240
 ggatgtccga ttgtgtcccg ctgtatatcg agacgctcga aactcagaac agaagctctg 300
 agcaaaatca atcgacaata actttttact cggatgtccg attgtgtcct gatgtatatc 360
 gagacgcttg anattcagaa tagaagctct gagcaatatc aaacgacaat aactntttac 420
 tcggat 426

<210> 12255
 <211> 470
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 12255

gaattcatta atcttctttt ccaactaaaa accattgtga gggggaagca tatgacgaaa 60

grtaagaatc tttttatttg acttcccatt taggtaaaca aaatgggtag tcaaagttat 120

gaaaccctta gtattaatag atgtccataa atcagaagtt aaacagatcc tgccaggaat 180

agcacacaac agttcttttac tgatgggtttt ctctctctca tatattctca acatattagt 240

cttaaaagta tttctagaaa ttgggttaatt gaggacacaa ataacttate aaagcctgaa 300

actctggata ctttaacaaaa atgaagggca aattacgctt aatcattaga ttacacaaca 360

attcgcgtgc catcatttga tctatctctt tggccttaaa ctttcttgc atgtctaana 420

tcatttgact catatcttnc aaatttttta tctcacatct cccattatga 470

<210> 12256

<211> 445

<212> DNA

<213> Glycine max

<400> 12256

attcaacgac atacttttatt ttgatgtctg attgagtcctg aatatatcga gacgctcgaa 60

attgaatggt gatgggtcgtt gcaaattgaa acgacaataa ctttttactc tgatgtctga 120

ttgagtcccg taatatatcg agacgctcga aattgaatct tgatgctctg agcaaattca 180

aacgacaata acttttttact cggatgtctg attgagtcct gtaatatatc gagacgctcg 240

aaatttaata cgaaagctat gagcaaattc aaacgacaat aattttttac tcggatgtct 300

gattgagtct cgtaatatat cgacacgctc gaaattgaat gttgatgctc tggtcgattt 360

caaacgacaa taatttttctg gccaacattg cagaattttt tacaacact ggtcgataat 420

atttctttat ggtagacgaa gtttt 445

<210> 12257

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12257

agcttaggct ttgaaaaatg tctaagttag tttattttga tgtcagaaga acgatgctgg 60

aatagtcatt gtctccttgt atgttgatga ctactttatg acaagaaagt caaaagagct 120

gattgaagaa tttaaaggag gaatgaaaga agcctttgaa atgactaatc ttggaaaaat 180
gtcatttttc ctttgtatgc aggtgcaaca agatagaggt gaagtctttg taagtcaaga 240
aaaatatgca aaggaaattc atagaaagtt caagatggag gaatgcaagc caattgcaac 300
gccaatgaat caaaaagtga aattcagcaa tgaagatgga gctganaagg ttgatgaaaa 360
attgtacagg agcttaatag gatgtctgat gtatttgact gcaaccaggc cagacattac 420
ctatgcagta ngcttgttgt cacgatatat gcaactgtgt agtgagattc at 472

<210> 12258
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12258

agcttatgaa tgatatgaat cgaactcatt ttctatatcc aattttctaat tataattatt 60
atccatactt tatttattta tttattttat caagaaacat ttaatgtgaa ttttaattaat 120
taaaacacgt cacttagtaa atcattaaaa tttatacatt aattatatatt ttgtattaaa 180
ttaaataata taataatgaa ggaaaaatcc ctcgagaaaa acataattta tagaaatgaa 240
ccactcctct cacattaaag ttctaccaac acatgtatgg ggcgtataca aatattgttt 300
ttatcaggcg tatgagaatg gttctatagt acccttttga gatcctatcc attgttatcc 360
atattgatga tccatttttg tgctcaagag ctactcatat tttttatact agtaataggt 420
ataattntta tttgtaataa aatactcata caatgttaaa ttggtttcta gaatactttt 480
taatgttatt aatataatat ntataaatag gtacatttgt c 521

<210> 12259
<211> 590
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12259

agcttgcttc tacacttaag tgtttggggg gtagttttat aaaatgttgg ggggagttaa 60
aacaaaatgg gcttttcaaa taaaaatccg acccacttta agtgactcag tacaaaaaca 120
ttgcatttca ttaagcttgc gtttagtgat cacaatccat atgttggatg catgtgtata 180

gtgcacaaga cttactaagc tcattggacg ataggtcctt tggatgcata tcaatgtggt 240
gagaccttcc acataaatTTT gaaacttcat tccacaagaa gcatgccaaag caaactctta 300
gcgagattaa cctatcctca gtaaaggggtt ttgtaaataa ataaacaagt tgatctcctg 360
tagatacaaa atgtaattcc atagtaccct tctaagtgtg atcccttatg aaatgggtgtt 420
ttatttctat atgtttggct catgaatgca tgatangatt nttagaaaga tcaatagcaa 480
caatattatc acaaaggata gtaatggtag tctcanatag gttatagtcg tcaagctgat 540
gtttaatcca caggagttga aaacaaaaac atgcagntga tatatactct 590

<210> 12260
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12260

gctttgaacc attaaatgac aataactttt attctgatgn tganngaggn ctgtaatata 60
acgagacact cgaaattgaa tgttgaacct ctgagcaaat tcaaacgaca ataactttct 120
tctcgatgt ttgattgaga ctcgtaatat atcgagacgc tcgaagttga atgttttaagc 180
tttgagctaa ttcaaacgac aataactttt tactcggtatg cctgattgag tcccgtgata 240
taacgagaca ctcgaaattg aatgttgaac ctctgagcta attcaaacga caataacttt 300
tttctcagat gtttgattga gactcgtaat atatcgagac gctcgaagtt gaatgttgaa 360
gctttgaact aattcaaacg acaataactt ttactcgga tgtcagattg aggcccgcat 420
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacg 470

<210> 12261
<211> 607
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12261

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ttctaccttt agtcttggtc ttagagatgg cttgtgaaac caagtcattg ttgggttatgt 120
ttcttgtttt cttgggtgct aattgcatgc aacattgtgt ccacgggggtg tctcaagtgc 180

cttgcctttt tatctttggg gactctatgt ctgatagtgg aaacaacaat gaacttccaa 240
 ccacttcaaa atctaatttc agaccatatg ggatcgactt tccattagga ccaactggga 300
 gatataccaa tggccgaaca gaaattgaca taatcagtaa catttcttta cactaattaa 360
 gatcctcttg tttttcctta aagtatatat ttagcattca gtacagcaat taaagattnt 420
 aaattcaaac ctcatatga attgttttga gttgtgatgg actaccttct gttaattaac 480
 tcancaattt tttagtagtg gtgaaagaat annaactata tttatntata gagccaagtg 540
 tcctttctct tgctctatac atttttgtca agctcacact agagttctac aatngcagct 600
 caatttc 607

<210> 12262
 <211> 555
 <212> DNA
 <213> Glycine max

<400> 12262
 ttttgaatca tgaatcataa tttatcgaat tctaagataa aaaaacatca aaaatagctt 60
 traatatata tataaatgat aatgatgtga atactcaatg tataatttta actaaaaaat 120
 cgcgcgtaagt ctacacaaaac gaaatcacia ctcatctct acttgatatg tgaaaccttt 180
 aatttaaaga taaaagaaaa gcaacggaca accaaatata gtgcataaag agagagtgac 240
 agtgtgaaac ccaatttaga aaataaaata gatatctgaa tatcaagtggt gtgtgtaaaa 300
 gatgaccttc attcctttta ttaacagctt agctataaaa catttcattt ctttataagt 360
 agtaaattaa agaaaaaaaa ataaaatcat gaatgttgac tgtgcgtcta tegtgatcaa 420
 acatgccatc atcatgattc aattctagta tctggatcat cacatcatga tgacagtcaa 480
 tattgtgatt caatctgaat gaagatccag tatatgttct tgtgactaaa caatttctac 540
 taaaacaaaa ctctg 555

<210> 12263
 <211> 550
 <212> DNA
 <213> Glycine max

<400> 12263
 gtttttggtg tgttactatt ccacatgtta aaccttttca aaacatctaa aatatacttc 60

ttttggtgca tgaaaattcc ctgttcaact tatgcaaact ccaatcctag aaagtatgat 120
 aatgttccca ggtctatcat ttcaaattcc ttcttcaaat tctgttttag tgagtcaatc 180
 ccaattgagc tactcctagt aagtgataga tcatccacat atagacaagt gatagatcaa 240
 tcccaattga gctactccta gaaagtatga taatgttccc gctccttcag cttgcataac 300
 tctattgtct gcaaacctta cattactctt ctgcattgca tcaaaattga caagccaatc 360
 cctatgtcca gtcatatggg ttgagcatcc agaatctatg taccaagttt cattattatg 420
 agattctgaa tcggtaatca tcatcagcat caagggttgt tcttcaaagt ctgcttcatt 480
 ctcttctttg gccatatgtg cttgataatc attgtgtgat tgattccccc tgtgatctat 540
 gctacttggc 550

<210> 12264
 <211> 540
 <212> DNA
 <213> Glycine max

<400> 12264

tttcgtgaaa ttgaaatggg cataacactt cactctgatg tccgattcag ggcctcata 60
 tatcgagacg ctcgaaattc aacaacggaa gctctcgaga aattaaaatt ggcataactt 120
 tccacttgga tgtccgattc aagcacatca catatggaga cgctcgaaat tgaagcacgg 180
 aagctcttga gaaattgaaa ttgtcataac ttttcaactg gatgtccgat tcaggcacat 240
 catttattga gatgctcgaa attgaacaac ggaagctctc gagaaattca aatggtcata 300
 agttatcaca cggagggtccg attcaggaac atcacatatt gagacgctcg aaattgaaca 360
 acggaagctc tcgagaaatt caaatgggtc taagttatca cacggagggtc cgattcagga 420
 acatcacata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttgaaatggg 480
 cataaccctt cacacggatg tccgattcag gcgcatatat atcgagacgc tcgaaattga 540

<210> 12265
 <211> 499
 <212> DNA
 <213> Glycine max

<400> 12265

agcttgatga atctggaatg acacatgcct atcctgttat attatgggtc agccctgtgc 60

cctgagacac catgatatgc tgactcactg cgacacaaca tacgacccgg atacttgatt 120
cctacaagga tcatggccta atgaataatg tgaattgatt accttgcttt taactcagcg 180
accgcgatat agccctttac ctcttccctt cctggagcat atgcgagaca ggctaccga 240
accagctttc tattgctatc tagatggata ctccgggtat aatcaaattc ttgttaagat 300
aggggatcaa gagaaaaaac acttcacttg cctctttgga ctttgcaatg caccagccac 360
attccaaagg tgcataatg ccaccccttt tgacctgga gaaaaatgca tagaggtgtt 420
tatgcatgat ttctctgtat taagagattc attcatgcca tgtctcatca gctttgtaag 480
tcctagaaag atgcattga 499

<210> 12266
<211> 524
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12266

agcttttaggc tcaatggccc cacatagaga atggcctagg tgtagccatg acgttcaaag 60
gtatgggtgga gcattaacat tatcagtga ggcccgacac ttatggcatt tctcacatg 120
gatgcaacaa ttgctctcca tagtgagcta gtaataccca gttctcagaa ttttctaggc 180
catggcatgt ccattgggtat gcgttccaaa ggatccttta tgcacctcta ctagaatttg 240
ctcagccctt ttagcatcca tacaccgaag tagtaccatg tcatgggttat tcttgatatg 300
gatattccca ctcaagaaga agtcggtcgc caaccttcac aacattcttt tctcgttgtc 360
agaggcctcc cgtgggcatt ccttgctctc gatgtatcgn ttgatattga agtaccaagg 420
cttaccatct ttctcttctt ctattaagca acaatgtgca agctcatcac gacatctgaa 480
ttcaatgtac gacaaatctc catgcgggct tancaggaac atgg 524

<210> 12267
<211> 371
<212> DNA
<213> Glycine max
<400> 12267

tagctttgag caaattcaaa tgacaataac ttttgattct gatgtccgat agagtcccgt 60

atttatatcga gatgctecta attgaaaata gaagctccga gccaatccaa acaacaataa 120
 ctgttgactc ggatgtccga ttgtgtcccg caatatatcg agacgctcga aattgaacac 180
 tgaagcactg agaaaaatcc aacgactata catatttact cggatgtgcg ataagggccc 240
 ataaaacatc gaaacactcg taattgaaaa cagaagctct gagcgaattc gaacgacaat 300
 aacctattga actcgggtgt cgcaagtga tccccgaata aatatctaga cgcctagaga 360
 ttgaaataca g 371

<210> 12268
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12268

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 gtgttatctc acagactttg actgcagtta tggtaaaact aatccatggc tctctgcttc 120
 tgggtacaga ttacagatta caactgtttc tgttccttcc attaattgct gaaggggttat 180
 ttctactcac taatttctt tgattaagtt ttataaattt gaattttaac aattaaattt 240
 aatgtatttc gaaatgagta ctttttaata acaataagaa taatgatata ttagtaataa 300
 aatttcttaa cttaatatata tttattttca aatatatata tatatatata tatatatata 360
 tatatatata tatatatata tatataaaat aaaatatgtc ttagctttta tattaccttt 420
 taaattatat aatttactta tatatggtat aatataaaaa tgttatgaga tagttaatta 480
 tccctttcat agattataaa ctctatcaaa taact 515

<210> 12269
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 12269

agcttcaaca ttcaatttcg agcatctcga tttatttctg gactcagtca gacatccgag 60
 taaaaagtta ttgtcgtttg aattagctca gagcttcaaa attcaatttc gatcgtcttg 120
 atatattacg ggactcaatc agacatctga gtaaaaagtt attgtcgttt gaatttgctg 180
 agagcttcaa cattccattt cgategtctt aatatattac ggatctcaat cagacatccg 240

agtaaaaagt tattgtcggt tgaattagct cagagggtca gaattcaatt tcgagcggt 300
 cgatagatta cgggactcaa ttagacatcc gagaaaaaat tattgggggt tgaatatct 360
 cac 363

<210> 12270
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 12270
 gctctgcttc tgaaagagat tcgattttct caacttgaat cagtttatca tcattcttga 60
 tcttgccaaa ggcaaacaat ttacatctat tgcctctcaa aacattaata aggttattaa 120
 ctgaatatgg taaatttaata aaaagaaata ctgtagttaa aaaaacacat aaaccttcaa 130
 gtgtggtgtg cagtgcacaaa tataagaaat ttatgaaatt gcaaaaatcc ttatctaaac 240
 aaccagatac aaagaaaatt ttcaccataa agcataaaat gaaaattacc agagaagaac 300
 caatgagcca tgcatatata aaaaaaaaaac agagttttga cagaaaggga aaatgaataa 360
 atgaatctta ctctgtaat cttttgcgga gcatgtaacg caaatatgca tcagttccat 420
 atgggctgat gcccatatat ttacacata 449

<210> 12271
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12271

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 actatggcat cttttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
 tttctggctt cagcatgggt catgaatcca atggctccac cactggcagc atctatcata 180
 cttctctcca tattattgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
 tgatgggtggg ggcaactgac acatattttc ttaaactctct cccagtactc atacaagctc 300
 tctccactga gttgactaat acctgagata tccttcctga tggctgcggt cctggaagca 360
 tggaaaattc ctcttaagaa tactctctta aggtcatcct agctcgtgat ggaccttgga 420

gcaaagtatt acagccagac cattgccact ccttctaattg aatgaagaaa agccttcaca 480
aatatgtgat cctnctggac atctggnggt ttcattggtg 519

<210> 12272
<211> 503
<212> DNA
<213> Glycine max

<400> 12272

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gttgatcaa atggagaata cagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tgggtgttct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg tattctcatg 240
caacaactga ggaggacaaa aaggtgaagc ttgccgccac ggaattttcc gactatgctc 300
ttgtgtggtg gaacaagcta caaaaggaga gagcaagaaa tgaagagcca atggttgata 360
catggacgga gatgaaaaag atcatgagga agcggatgtg gccggctagt tactcaaggg 420
acttgaaatt caagctccag aaactaacc aaggcaacaa ggggggttgag gagtatttca 480
aggaaatgga tgtgtcatg att 503

<210> 12273
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12273

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tcttaagtgc tcaatattta aagttgtcga aattaattct ctgaaaaact ggctaagttc 120
aacaaatggc ttccaaataa gttttggtta tgagtcaa atgcaattggaa gcaaccgttg 180
catgaaaaca tgacaatcat gacttttcat tccatgaatt tttctcttgt taagatccac 240
acaccgacct aaattggagg catagccatc tggtaacttt agttctttga cccatttaag 300
aacagcgagt ctctgggatt tggtcattgc ataagctgcc tttggtttaa agaacttgtc 360
acgaccaaca tetaccagct caagctcttt ccaattacat atttctgcta agtccattcg 420
agcattgtgt gtatccttgc tttttccatt gatgtccatc acaatgttaa agacattcat 480

aaacacattt atttctgtgt gcatgacatc aatgttat

518

<210> 12274
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12274

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atggctttga ttttcttatg gtccacttgg acccatttct accaactaca aaccctaaaa 120
acactatatt atctacacaa aaagtacact tctctatatt tgcatagagg gtgtttttcc 180
taaggactga aagaacttgc ctgagatggt ctaagtgatc atctaggctc ctactgtaca 240
ctaaaatatc atcaaaaataa acaactacaa aaatctactt atgaaatccc ttaagacatg 300
atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagcca 360
ttcatacaaa tcgaacttgg tcttgaaagc ggntttccac tcatcaccct ttttcatctt 420
gatttggtga taccactttt taagatcaat tttgaaaaga tattggccca tgcaactcat 480
caagcgaatc atcaagtcta ggaatggggg gcctatactt tacaatgatg atgttgatgg 540
ccctgcaatc tgtacacatt ct 562

<210> 12275
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12275

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ccaataagat cttgaaatat atgattctca caaataatag ataaatagtg catctctttg 120
tccatagtat gacttgtctc cgatgcactt taattcctag gaagatgaga gaaccaagat 180
tttgctttca tgattattct ttctgtctct ccacgtttgt gataggtagg gattagagag 240
aacatttttt tgtcaagaag aggaccttat ttcacgttag tgtgtattag tgccttttat 300
aaccactact cacatcaagt agcagttatc tttagaaact tgtgctattc aaccaataac 360
aatttacgcc ttaattatta tttatttatt tattagtccc tacataagtc acatgtctct 420

cacataagac attaatTTTA acatttctctc acttgactta tgtgacatta ctaaacatta 480
 tggactaaat aataaattga ttaactaaca taatgtgcat aaaatgacta acccttctat 540
 acatggtaca tcataattc 559

<210> 12276
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 12276
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 acttcctcag gttgacaagg tgttcctcct cggctcttaga ttgggcaatt atgtcatcca 120
 cgtagacctc gatctcttag tgcacatcat cgtggaacaa agctaccata gcccgttgat 180
 aagttgcccc ggcattcttg agtccaaagg acatcacctt gtaacagaat gttccccaca 240
 gggtgacgaa ggtaatcttt tccatatacct ccgacgccat ctttatctga ttgtaactgg 300
 agaaccgctc catgaaggaa aacaaagcga aattggccgt attatccacg aggatatcga 360
 tatgcggaaa aggaaaattg tctttgggac tggctcgatt caaatccttg atatccacac 420
 acatt 425

<210> 12277
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 12277
 cttcaacatt caatttgagc gtctcgatat atgacgatac tacatcatat atccgagtaa 60
 aaagttatag tcgtttgaat ttgctcagag cttcaacatt caatttcgag catctcgcta 120
 tattacggga ctcaatcaga catccgagta aaaagtttgt tgtttgaatt ggctgagagc 180
 ctcaacattc aatttcgagc gtctcgatat attaaggagc tcaatcagac atccgagtaa 240
 aaagttattg tcgtttgaat ttgctcagag catcgacatt gaattgcgag cgtctcgata 300
 tattacggga ctcaatcaga catccgagta aatagttatt gtcgtcggaa tttgctcaga 360
 ggttcaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 420
 aaaaagttat tgctgtctg 439

<210> 12278
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12278

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agcttcaaca tcagaccact tccagttttc tggaactact tcacatggat ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagattttac ctgngtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagagaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcattcactc 300
atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
ccttgcaaga ggctgctcgg gtcattgctc atgccaaaga acttccttat aatctctggg 420
ctg 423

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<210> 12279
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12279

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gggcaattnt aaggtgtaaa ttctcgcatt gaantgatat aagtttaatt aaaaacatct 60
aagaaaatga aggaaaactc ttttctaatt aagacaaaaa taaataaata atcttgcgag 120
acaatatata atatgctaaa attataaata gcttaccag cagccaacaa aaacattaaa 180
ttcgaacgca aatttaatta ggagaaaata aaattttctc tgtaaaacaa taacctttag 240
atgggggttaa ttaatgtcca ccaaaaaaaaa cagtgtatat tcatatgaaa atatacttcc 300
cgtgttccca tatacaaagt acataacctt cataaaaaaa ttaatcatta aaattttcaa 360
caattcattt agatttttta gatttgttta taaaattatt agcacctcat ttgcttcatt 420
tctttctacc taat 434

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<210> 12280
 <211> 438

<212> DNA
<213> Glycine max

<400> 12280

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gtcccttttc tcgtgtttc gtgttctttg catttttttc ctattatttt acttttgatc 60
attgtcagtg tgaaaagttt ttacagaagt gccttattaa cataataact aaggtttttg 120
atttgctgtg atttgaaagg tttcaagttt caacagttct ttgaactatt tctgtgtgtt 180
gaagtgatag tttatctata actgcaggat atgaatatcc gtgaagcagt aatgagggcc 240
gagaaagctt taaagataag caaacgcaag gactactaca aaattttggg aatttcaaaa 300
acagcttcgg ctgctgatat aaaacgtgcc tacaagaaac tcgccttaca atggcatcca 360
gataagaacg tcgacaagag ggaagaagca gaggctaaat tccgagaaat tgctgctgct 420
tatgaggtct attattat 438
```

<210> 12281
<211> 436
<212> DNA
<213> Glycine max

<400> 12281

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ctcagcttca cattcaattt cgagcgtctc gatatatgac ggtactcaac cagacatccg 60
agtaaaaagt taatttcggt tgaattggct cagagcttca acattcaatt ttgaggggtct 120
cgatatattg cgggactcaa tcagacatcc gagtaaaacg ttattgtcgt ttgaattggc 180
tcggagcttc aacattcaat ttcgagcgtc ccgatatatg acgggactca atcagacatc 240
cgagtaaaat gttattgtcg tttgaattgg ctcagagctt caacattcaa tttcgagggt 300
ctcgatatat tacgggactc aatcagacat ccgagtaaaa agttattgtc gtttgaattg 360
gctcagaggt tcaacattca atttcgagcg tctagatata ttacgggact caatcagaca 420
tccgagtaaa acgtta 436
```

<210> 12282
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12282

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agttacttgc gcaaccttgt tcatcttcat gttgtgaaag aaattggggt acatattcat 120
gtatccattc tttaaagaga aacaagatgg cactacatag agctgaagat ttagtatttg 180
ttcatagcaa cctacgactt ctctcaagga atactccaca atatcatcaa gagggaaacta 240
aaatgtggga tgtaactgga gatgattttg aatcacttga tgattgtggt attcttgaaa 300
ttgctagatt gtcttttagat gaaccagagt tagagggtgt ctttttcaat gatgattgct 360
agtttgtgaa attcttgaag acttgaagtt gctaattcat catcttgctn ntataatctt 420
nntgtaagaa acaaagcgt 439

<210> 12283
<211> 431
<212> DNA
<213> Glycine max
<400> 12283

togaatcacg gggatagatt tgccacaacc tggtttaatg ccacgacaga ggggtgctcga 60
gacagggcgt aagctcgcaa attattgcaa gcgtttcaat gttccatttg agttcaatgc 120
tatggcacag agatgggaca ccatcaaagt ggacgacctc aagatacaaa ggaatgaatt 180
tgtggctgtg aactgcatgt ttcagtttga gcatctgcta gacgagactg tgggtgttgaa 240
taatcccagg gatgctgttt tgagattgat taagaatgca aatcctgaca tatttgtgca 300
tggcattgtc aacggatcct atgatgtacc attctttgtg tcatgggtcc gggaggctct 360
ctttcattac actgcattgt ttgacatgct tgacaccaac gttgctcgca agatcccatg 420
aggttgatgt t 431

<210> 12284
<211> 165
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12284

agctntgctt ccacaattgg ttaggaggc cgcttcgacc catttggtga aataatctat 60
cgccacgagg atgaagtgat gaccgttcga agccttgggt ttgatggccc ctatgacatc 120
tatacccat atggaaaaag gccaaaggagc gcgacatgac gttta 165

<210> 12285
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12285

tattttgttt gcaatattta tgttgtgtgt ggattgattt ctatttagaa taaagtttag 60
 accaattgga aatagggcatg actgagatca cattgcatgt aactttcatg ttgcttatcc 120
 atattgacct atgtcattga gtgtactaat gtagtagtca ttgggggtcta gttacattta 180
 ttgatgcaat cctccctagg aaggggaccaa tcactagaac catgagcaag aggctccaag 240
 aagattgggc tagagctgct gaagaaggcc ctagggttct catgaacctt agggtagatt 300
 tctgagccca tgggccaagg ttgggtccaa ttatctttgt acatattaga ctaggatgtc 360
 attatatttg gtccttgtat ttagggctcc atattgtagg tagggtagcc tagaaatata 420
 ggattnttca gccctt 436

<210> 12286
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12286

agcttgaagc atgcaattnt tccagcttac tctttctcca actcatcaat ggcaggggct 60
 atcatcctgt atggaccaca ccatgggtgca atgggggtctc acttgcaatg acaatgttat 120
 tccagcttga atctgtcaca gctcgactg caaaataggg ccagccactt actactacct 180
 agattgctnt atggcaaaat aaaaatcata aattcaacac aaggtaaagg atattcaact 240
 attcatcact caaggatata atatttgggt gcaaaatgtt aaatgaccga tatgagtttt 300
 gtacaatgat tccccccgcc cccctataaa gagtttttat attatcatcc aataataatc 360
 taacatttat gataagtttg ttaactttta cattaagtcc ttagaagtta aactaatttc 420
 taa 423

<210> 12287
 <211> 421

<212> DNA
<213> Glycine max

<400> 12287

catttactac agacctcctc aaccatagtt gttatttcaa ccacagcaga acaattatga 60
cctctccagc aacagatata atccccgatg gaggaatcac cctaattctca gatgggtctag 120
ccctcaacaa caacaacagc agcctgctcc ttcctttcaa aatgatgctg gcctaagcaa 180
gccatacatt cctccaccaa tccaacaaca gcaacagccc cagaaacaac aaacagttga 240
ggctcctccg caaccttccc tcgaagaact tgtgaggcaa atgactatgc ataacatgta 300
gtttcaacaa gagaacatag cctccattca gagcttaact cgccagatgg gacaattggc 360
tacacaatta aatcaacaac agtcccagaa ttctgacaag ttgccttctc aatttgctct 420
g 421

<210> 12288
<211> 237
<212> DNA
<213> Glycine max

<400> 12288

aaaatgatgc tagactaagc aagccataca ttccttcacc aatccaacaa caacgacagc 60
cccataaaca acaaacagtt gaagctcctt cacaaccttc cctcgaagaa ctagtgaggc 120
aaatgactat gcagaacatg tagtgccaac tagagaacaa agcctccatt cagagcttaa 180
ctcgccagat gggacaattg gctacacaat taatataaca acagtcccag aattctg 237

<210> 12289
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12289

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acaattatga cctctccagc aacagatata atccccgatg gaggaatcac cctaattctca 120
gatgggtctag ccctcaacaa caacaacagc agcctgctcc ttcctttcaa aatgatgctg 180
gcctaagcaa gccatacatt cctccaccaa tccaacaaca gcaacagccc cagaaacaac 240

aaacagttga ggctcctccg caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300
agaacatgta gtttcaacaa gagaacagag cctccattca gagcttaact cgccagatgg 360
gacaattggc tacacaatta aatcaacaac agtcccagaa ttctgacaag ttgccttctc 420
aa 422

<210> 12290
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12290

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aacctcaagg tgatggcact cacattcttc agattctgca cagtttgtga aggcaatttg 120
ttagaatttt tggattgagc ttggtttaac tgagtagcca tttgccccat ctgatttggt 180
agactttgaa tggaggctct tgtctcttgc tgaaattgca tattctggat ggtcatttgc 240
ctcactaact cttctaanga aggttaagga gaggcctcag ttgcttggtg tctttgttgt 300
tggttgctgtt gtattggagg aggaacatat ggcttgcttg ga 342

<210> 12291
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12291

agcttctggt gggacttctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcate ttctttggag 180
gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtaaca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcacaaagca ttctgactnt 300
gtgaagttta cattgaatcc ttcacacac aactgactga tgctgatnca agttgcagtc 360
agtccttca ccaacagtac tttgtccaga ctangaagtc catcat 406

<210> 12292

<211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12292

 tcaacattca atttcgagcg tctagatata ttacattatt caatcaaaca tccgagtaaa 60
 atgttactgt cgtttaaatt tgcttggtc tccagcatta aatttcgagc gtctcgatat 120
 attacgggac tatatcagac atccgagtaa aaagttgttg tcgtttgaat ttgcttagag 180
 attcaacatt catcttcgag tgtctcgta tattacggng ctcaattaga catccgagta 240
 aaaagttatt gtcgttgga ttggctttga gtttcaatat tcaattacga gggctctgat 300
 atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga atnttctcat 360
 agcttcatca nttcaatttg agcgtctcta tatattacan gactcaataa gatatccgac 420
 tagaaaagta t 431

<210> 12293
 <211> 424
 <212> DNA
 <213> Glycine max

 <400> 12293

 agcttcaaga aaaagatggc ctcaacttat ttcttatttc cagaagggaa ttctatcaat 60
 agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat tcaaattttt 120
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
 cctagagata gatgctctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
 aacataataa catctgccct aggaatggat gaatatttca gggtttcaaa ttgtaagagt 360
 gctaataaaa tgtgggacac tcttcgatta cacatgaagg aactacagat gttaatagat 420
 ctag 424

<210> 12294
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 12294

ggacctataa aactcagett cacataggag ctgcatcatg tgtgatttat agcatettca 60

tetaagnag gttcttttgc ttctctatc tttttattcg gtcaattcac ttttaattcct 120

tgtttttcat cttattctcc atgtatatcc ttcattgtct tgtgttttga tgcgtgttag 180

agtatatcca aaaaataaac cgattaaac ttagatctac acttgttctt gcatttctat 240

ggttcaaatt ttatatatct actcttgaat catgtttttg tgttgatttt aggttcaac 300

attttccagt cataatcttc ttgtactgaa cttttaaac taaattttat tccanaatat 360

tgattataaa aaaagcacia aaatctaagt gtaaatcact taatctatgt tgtcttagag 420

tcatgntag tcataataat tgtcacatta t 451

<210> 12295

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12295

ngacattaat agtttgaata tatttattac ctaaattggt gtaattntat ttattacatt 60

tacttgacaa attataatth tgtttattat tatctaagat ataccattta ccgaatttca 120

attttaaatg ggtgactaca agttgtataa aattcaccat ttccatcac aaagatttca 180

ttttaaatct tgagtaatct ttatgaatat aaaattatgt tttattactt atttacttca 240

ctttctagct tcaaagtatc tatcagaaaa ataatcaagc cataaacaaa taaacgaac 300

aagcccaagc ttcatatatt ttaaccaact caagttgaag ttttaaatth gtccagttta 360

aataaacgag tgaagcttga gtaaccatt ttcttcacia ggcaaacct aactatagct 420

cagctaaact tgtttac 437

<210> 12296

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12296

agcttcctaa taatgatgaa cgattattaa catgtttcct aatatatatt gtcttatttt 60

atatattttt aatatcacta ataactaatt tttaacattc tatcattcaa aagtattttt 120
 aaagaaataa tgaattaact ttcaaataatt ttagtaccat attgtgaaat tgtgtctaan 180
 atctttattt catcttctaa atcacaaaat tgataataag gttcaaaaact aattgttaat 240
 cacgataaga atcacccatg agggaaaaaa aacctctata aagttcattt acattaaaaat 300
 aaactcaaag ataatacaga ttatttttaa aagataaatt ttatatttta aaataaaaag 360
 gaggggtcta attaggaatg caaataagac aagactntac ttaaacaagg tctgacttat 420

<210> 12297
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12297

agcttgacca acctattct atggatngac tcttattaat acataatcac catccacgat 60
 atccaggctt ttctcttct tctctgata actcttctgc ctactctgag cagttctcat 120
 cctctcttga atcaacttaa ccttcttagt ggtttggtgt accacttcag atcctaagggt 180
 gaggttctct ccaagttcta gccagcacia ggggtgtcta caccttctac catacagaac 240
 ttcataagga gccatgccaa tggtagaatg aanactattg ttataggtga actctatcaa 300
 cgacaaaagc tctcccaatt tccttttttg tttaatacat aagctctc 348

<210> 12298
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12298

gagaggagac accacttcac tgagaagatg agactagaag aagctcacca ccataggagg 60
 ccatggataa gagcttgga gaagaaggag atgaatgaag ggagaggaag agaagagcac 120
 gtaattntgt gctctaaaag agctctgaca tctgaagttt aatattcaaa agatcaaagt 180
 tgagaaaatg cacacacatg gcctttattt atagcctaag tgtcacacia tattggaggg 240
 aaatttgaat ttctattcac atgtcacttg aatttgagat tgagtctgtt gagccatatt 300
 ttggagccaa aatttcacta attatgatta g 331

<210> 12299
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12299

gocctaattcg tctaagagct cgtcaatggt gggtatcgga naccgttcac gcaccgtgag 60
 tgcatttaaa gctctgtagt ccatgcaaaa gtgccatgaa ccacccgtgt tgcgaactan 120
 gagcacagac aagaagggtc ctttctagag cattgattca acctgogatt caatctcatg 180
 tttctggtaa tgtggataac gatagggccg tacgttgact ggcgcanctt gcggcangag 240
 gtggatgtgg tggctctgtt cgcgggcccg tggcagtga gaaggtggct gaaataatgc 300
 acganaatga tcaattaaag attggatacg tgg 333

<210> 12300
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12300

tcttctcctt cacccttctt ctctcattat tctcccttct ctttntccca tgttggttact 60
 cccttgatga gcaaggccaa gctcttatag catggaaaaa cagtttaaac atcacttcag 120
 atgtgttagc atcatggaac ccttcagcct caagcccatg caactgggtt ggggtgtatt 180
 ggaactcaca aggagaagtg atagagataa gcctgaagtc agtgaacttg caaggctcat 240
 tgccttcaaa ttttcaacct ctaaggctct tgaagattct tgtcctctca tcaaccaacc 300
 tcacaggaag tataccanaa gagaatggag actatgtaga gtcctcatt gttgatctca 360
 gtggcaattc tctctt 376

<210> 12301
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12301

gcttgtcatc cagtcttcta acctctttga ccatgctact aangagagtt ttagcttcag 60

aataactcctt actttccatt agaaatgctg caagccttgc ctcaactcgc tgcctcagaa 120
aggtagctn ttcagcacgt gtccattgca ccatttcttt gcagagtgtg atttgtagat 180
cagtagtccc tggatatttt gcaacagaat caattatgcc cctcactatc tttgctgttt 240
ttgccttang aatcaaggaa aagaagggcc tcaactgagt aagaaggcta tgcagatcct 300
ctgccctatn ttgttccctg agatgctcag tgaggtttgt gatggcctgt tctttcatgc 360
gcagagcatc tggagaagaa gaaggataat caagtacctg ataaagaatg gagatggact 420
cngatgggtc tttgcatcca ct 442

<210> 12302
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12302

gtctcacgag tgtctcgtgc tcatgcaact tttgttagcc gtggctatac gagacatctt 60
gccaaacaaa gtcagggttaa cgataactcg cctgtgcttt ttcttccatg ctatatgtag 120
caaagtcatt gatccagtcg tgtntgatga gttggaaaat gaggccgcaa ttaaactgtg 180
ccagttggag atgtattttc cctctgcttt ctttgacatc atgattcact tgattgtgca 240
tctggtcaga gaaatcaaat gttgtgggtcc tgtttatcta cggtggatgt acccggttga 300
gcgatacatg aagatcttaa naggggtatac aaagaatcta tatcatc 347

<210> 12303
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12303

acaattaaac tttgtgctta tcacggtatg atagtgtatc aaatggacat aanaagtgtg 60
ttcctcaatg gacttatacaa ggaagaagtt gatgtggaac agcccccttg gtttgagagt 120
tctatatacc cttatcatgt tntcaaatnt aacaaggctt tgtatanttt anaaatagct 180
ccttgagctn tgtatganaa gctaagttca nttttaattg aaaatggctn tataagagga 240
aaggtagata ctactctgtt tcacanagat tatggtagtc aattcctaata catccagata 300

tacgtggacg atatcatatt cgatgctact aatgactctc tgtgt

345

<210> 12304
<211> 257
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12304

ttgtagaaca atatatccca acacaccana ttattggctn tctcagcaca ttgctttgaa 60
aagaggtatt ccttcttctc ccttcttgca tcttcaataa cctcattgac caccaaggta 120
ctatgaagaa gatacctatc tttcaagaag gtgttgtgct tttgatcaat aactccattt 180
aatactttca tcaacctatt ggcaagtaat ttgcaaata ttttgtacaa gcaactaaca 240
agtgaagatga gtctaaa 257

<210> 12305
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12305

gtatgtacta cgtgtcacta tgcagatcat aaacgatcat ccttttcatc aagcacttca 60
catgaattaa tcanttttta tctcatacat atagatatat ggngaccctg ttcaaagggtt 120
tctatgcatg ggcacgttta ttttttaacc attgtggacg atcattctcg ctntacatgg 180
atttacctaa tgcaaacaaa agctgagggt cgaanactca ttatcacctt cgttacatat 240
gttcaaacgc aatntaataa aaccattana atcatagcta gtgataatgg tgetgaattt 300
cttatgaatg aattttatgc tcanagggga atcatat 337

<210> 12306
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12306

ggaggtgttg ctgtatccaa tgaatactct gagttctgtt cnnttatcaa gttggccctt 60

ttaacctgtg gaacataaga gaaacaaaca caaccacaga ttttttagatt ttgtaaatct 120
 ggttcgtaac caaaccaacc ttcaaattgga gtttttttgt gcagaactct tgtaggtagt 180
 ctattcagca aaaatactgc agtgtttgca gcctccgcct atagctcctt tggcaactcc 240
 ttttcatgca gcatacacct tgtcatctcc atgatacttc tattttttct ctcactcaca 300
 ccattttgtt gtgggggtgta aggtacgggtg aattgggtgct caatgccaac ttcttcacaa 360
 aatttatcac aaacatcatt tatgta 386

<210> 12307
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12307

gcttctgttg gatcgagtgg cctcagaata atttatatag ggggggttgaa ttaattatct 60
 ctagaccttt actaattaan aaattactct tctaaggctt ttacttatgt tgttaagaga 120
 gtatggagta gaagagaaac ttaacagaaa gtaaaagcgg aaattaaatg cacagcggan 180
 agtaaaagag tagggatgaa ggaaacaaac acacaagagt tnttatactg gtttggcaac 240
 aacccgtgcc tacatccagt ccccaagcga cctgcgggtcc ttgagatttc tttcaacctt 300
 gtaaaaatcc atttacaagc aaagatccac aagggatgta ccctcccttg ttctctntga 360
 acctagtgga tgtacctctc actagaactg atccacaaga gatgtacctt ctcttgttct 420
 cagtcaaacc caagtagatg taccgtctac 450

<210> 12308
 <211> 300
 <212> DNA
 <213> Glycine max
 <400> 12308

tctgtacctg gtgcaagggt ctgcggattg tgctcctctg ctgaccacca tacagacctt 60
 tgcccttcca tgcagcaacc tggagcaatt gagcagcctg aagcttatgt tgcaaatatt 120
 tacaatagac ctctcaacc tcagcagcag aatcaaccac agcagaacaa ttatgacctc 180
 tccagcaaca gatacaacct ttgatggagg aatcacccta acctcagatg gtccagccct 240
 cagcaacaac aacagcagcc tgctcttacc atcaaatgct gtggccaagc gaacatacat 300

<210> 12309
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12309

ttcgagcgtc tcgatatgtg atacgactgt atctgaagtc tgagtttaaa gttttaaccg 60
 ttagaattta tcagacagct ttcgttggtc aattntgaga gtctcgacat attatgtgcc 120
 cgaactcgac atccgtgtga aatggtatga ccagttgaat ttctcgagag cttccgttgt 180
 tcaatttcta gcgtctcgat atattatgcg ctcgatcag acctctcgt gaaatgttat 240
 gaccattaga atttctcgag agcctgcata tttcaatttc gagcctctcg gtatattata 300
 ttaccgaatc cggcatccat gtgtaatgtt atgaccatat ggaatttctc gtggacttcc 360
 attgttcaac ttcgagcgtc tcgatatatt atg 393

<210> 12310
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12310

ctttaaaggg aagtgggtgc gcctggtnct tttcccgctc ttctctttcg taaaatntct 60
 tctcttatgt ccacaatctt gtccttgtaa cctgggtcaa gaacatgacg ttatgtaaag 120
 aactctaact cactcattgg ttctcaacaa aaattaaaaa ttactaagtg gtaatcatag 180
 tttctattaa tctttgcatg acataattga aggatntaat tatatgtact gacagaataa 240
 aatntattnt atatagtgat cggttgataa tataaaaaaac tttgcactnt tntaattaaa 300
 taataataat aacaactaac atataanaat tagtcaaacc gcgtaattng acaccataca 360
 ataatttctc gcanaaatat gtcacgcata ctanggttng ttattcttaa taact 415

<210> 12311
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12311

aaaaatattt gtttttagttn cttatatata aaaaaataat aagttatata ttgacaaaag 60
aacacagtat atttctcatt taaaataaaa tatttctctt agaatttact ttatgtctta 120
ctaattgtgc cgtgggtctgt ggatagcatg tcattaacca tcaactctga caacataata 180
attgttatta aaagatacat aaataatggt tgattaaaat atttttcaat ctataaaatt 240
atggagctnt tataaaatta ataattactt taatttggtt ttgttctgt ctctaaaaaa 300
tatgagaata atgggtattta tttattgaan aaagattana actatagagt gaatagtcta 360
catatacact cataatataa ataattttta cactcttatt taatgataaa ctntcgttca 420
atcacatnat tgttatcgtg tgtatatat 449

<210> 12312

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12312

gaaaaagagg tattccttct tctcccttct tgcctcgtca ataacctcat tgaccaccaa 60
ggtactatga agaagatacc tatctttcaa gaagggtgtt tgcttttgat caataactcc 120
atttaatact ttcacaaacc tattggcaag taattntgca aatattttgt acaagcaact 180
aacaagtga atgagtctaa attccccaag gctntgtggg tcatctacct ttnggacaag 240
agcaatgaaa gaagcattgc tatcccttag aagcacacaa ttagagtga actcaattac 300
aaacttcaaa atatcatccc ttaataattt tcaaaaagat ttagaanatt gaagtgtaac 360
catttga 367

<210> 12313

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12313

cgttcaattg gatacatcca ccgcagaata accggaccac acaaccgaat ttccctcaca 60
agatgaacaa tgagggtgaac catgatgtca aaaaatgatg gtgggaaata catctctaac 120

tgacaaatga caatggcagc ctcattctcc aagtcaccca attgatgagg attaatagact 180
 ntactacata tggcattaaa aagaaagcac aaacgggtta tggcaactct aactatgtca 240
 ggcaagatgc cgcgaatcgc aacaggcaat aattgttgca ttaagacatg gcaatcatga 300
 gacttcaagc caaccaactt aagatcattg annggcgaca ggctcttgat atttgaagag 360
 tatccttggtg gaactntgac attc 384

<210> 12314
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12314

atatttttat tattcaagcg tagttagtaa tcgtggtagt tagtaatgat tntagttagt 60
 aatgatntga gtttagtaatt atattactta aattttcaat caggtaatat aattagaatt 120
 gatatttaat tatttgtaat tattttagtt agtaattata tttaacataa aatataagtg 180
 aattcaagac aatattagat agtattatat agatgtatgt aattcttcta agtattatat 240
 agtgtaaaaa taatctaattg ttatattaga tagtattaga tagatgttat ataaatgtta 300
 cttgttatat atgggagtac gtagatgtgt ttaaaacaaa gtagataata 350

<210> 12315
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12315

ctcagctttc tttagaaaat aaaggcttgc tcttgtnntt caccctggt aaatgtcaca 60
 ttcttcttca ccaactcatt gagaggtagt gcaattgtag aanaattang aacgaacctt 120
 ctatagaagc ttgctaacc ctaggaagctc ctaatatctc ccacactntt tggggtgggc 180
 cattcttgga tggccttgat tttctcaggg tccaccggga cccatttct accaactaca 240
 aaccctaaga aaactatatt atctacacaa aaggtagact tctctatatt tgcataagaag 300
 gtgtnttcc taaggactga aagaactttc ctgagatgtc ctaagtgate atctaggctc 360
 ttattgtaca ctaaaatatc atcaaaataa acaaccacaa atctacctat gaaatccctt 420

aagacatgat

430

<210> 12316
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12316

gcttgccat tgctgtttga tagaagaaga gctttgatgg taaccttggg acttcgatat 60
caaacggtac atcgaagaca aggaataccc gtaagaggcc tctgacaacg acaatggcag 120
ccggtttttt cctaagtggg aatatcctgt acaagaggaa ccatgatatg gttntgcttc 180
gatgtgtgaa tgctagagag gctgagcaaa tgctggtaga agtgtatgag ggctcctttg 240
gaacacatgc caatggacat gccatggcct ggaagattct aagagtaggg tattactggc 300
tcattatgga aaatgattgt tgcattccatg tgaggaagtg ccacaagtgc caggcccttc 360
accgatatgt caatgctctg ctctgacctt tgaacgtctt 400

<210> 12317
<211> 364
<212> DNA
<213> Glycine max

<400> 12317

cccagctggc ctggaatcag aaatctgtac ctgtcgcaag ggtttgtggg ttgtgctcct 60
ctactgacca ccatacagac ctttgccctt ccatgcagca acctggagca attgagcagc 120
ctgaagctta tgctgcaaat atttacaata gacctcctca acctcagcag caaaatcaac 180
cacagcagaa caattatgac ctctccagca acagatataa ccttggatgg aggaatcacc 240
ctaacctcag atgggtccagc cctcagcaac aacagcagcc tgctcctttc ttcaaaatgc 300
tgctggccca gcagccatac attcctgcac caatcacaac aacaacaccc caaaacagcc 360
acag 364

<210> 12318
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12318

tattctaaag cccgattata gttgtaangc ttctatcaca tccaagccta atgcctgcaa 60

accatgattg tctaatatnn tcacggattg agccttcttg agcctatattt aacattatta 120

tgacctgggc ttgtgaggaa aaggcagtga tggttcnaat gttataaata gcttcaatag 180

ctattttgct agtttcatct tgggctttga tagcctttnt agacataccc ttgaggagta 240

caagtcttgt gtagaaactt gcaatgccaa taggttgaac aacaatcaat ataatggcan 300

atctccatgc aatgattang cccattgtgc atgctatcac cactgctgan atagtttgta 360

ccaacagagc cattctatct cccact 386

<210> 12319

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12319

aagcgtcttg atatattacg ggactcattc atacatccga gttattagtt attgtcggtt 60

gactnttctt agaccttcog ttttcaattt cgagcgtctc gatataattac agggatcaat 120

aggacatctg agttaaactt tattgtcggt tgatttttct ccgagcttcc gttatcaatt 180

acgagcctct cgatatccta cgggacacaa tgggacatcc gattcaaaag ttattgtcgt 240

ctgaattegc tcacagcttc agttttcaat tacgagcgtc tccatatatt actggactca 300

<210> 12320

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12320

agctgaattg aaactaaagc tctgagcana ttcatacgac ataatttgac tcggatgtgc 60

tattgtgtcc cgtaggatat cgagacgctc gtgattgaca acggaagctc tgagaataat 120

caaacgacaa taactcttat ctccgatgtc cgattgagcc atgtaatata tcgaaacgct 180

cgaaattgaa aacgaaacct ctatgataag acaaacgaca ataacttttg attcggatgt 240

ccgattaagt ctcgtaatat atcgagacgc tcgtaattga gaacagaagc tctgagtcce 300

<210> 12321
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12321

gagcatgata ttgcgtctat accgttgact gtttatcagg tatatgagcg ggttcaacac 60
 ctgaacactg tatttgggaa gacccacacg aaggataaaa gtcagagttg catatggaag 120
 aagaggttca ttntctttga tcttccgtac tgggtgtgatc ttgacgttag acattgtatt 180
 gatgttatgc atgtggagaa naatgtttgt gacagtgtga ttgngacgct ccttaacatt 240
 caaggaaaga cgaaagatgg cttgaatacc cgtcaagatc tagctgatat gggataaaga 300
 tcacagctgc atccaaggtc tgat 324

<210> 12322
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12322

atcttgnta ctctactttc tcacacgatg aactttactg gactctctgt atacaacatc 60
 aatgaataaa tcaatattag ttctatgatc atcttaggtt cttaagcaat tagccaagct 120
 atctagagga agctcccttc aacttctttg taacaggaag ctccctcttt ntatattcaa 180
 gggtagctag ctatgggcaa gctttacctt gctgatggga agctagctaa gtgttagtgt 240
 ttggctctac tgagctttaa aagattggct aagattntgt taaaacataa gcacttagac 300
 aatgaaggaa agctggagtt gctgcacatg atgtccaacg ttatgtcaag gaataagatc 360

<210> 12323
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12323

tctgcagagt ggaatcattt atcgtatctc cgatagccaa tgtgtgagtc tcgtcccggt 60

agtccccgaag aggaccggcc ttaccttcat aaacaatgag aaggaggagt tgattcctac 120
 tcgggtgcag aacagttaga gagtctgcat cgattatagg aggetgaact aggttaccac 180
 aaaggaccat tttcccttgc cattcattga ccatatgctt gaacgcctgg caggtaaadc 240
 tcactattgt ttccttgatg gttnttctgg ttatatgana atcaactattg ctctgagga 300
 tcaggaaaag accacattca cctgccccct tggcactttt gcctataccg tgcaatgcc 360
 ctggtacctt 370

<210> 12324
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12324

agtgtgtgnt aaatgtctaa aatataaaga aaattatgta ataatgtttc tttgaagaat 60
 atnttatcag tgaaaataaa atattttgaa tattgaattt gtagtatttt ttttaattaga 120
 ttaggttggg gttaatgatt tattagtgtg ttaataattc atgaacgttt caactttcat 180
 ttaaaaaaat tagtagatca tatttatttg aagaaagtat tttgagtatg aaatttattn 240
 taatatgaag ttgtagtatt tttttaatta gattagggttc attnttttgt gttaaaaatt 300
 gataagcgtt caagttgaaa gtgttatttg atgatgttnt nngtgttctt gtatcatatt 360
 tanattaata tatttggtag taatttgtaa ttacctattt tcattttgaa gt 412

<210> 12325
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12325

taataattca nataatactt ttaatatatt aagattcaat gataaatact cttaatatat 60
 ntntagttta attatttatt aactctttta atcgaaaata atatagttcg atttaatat 120
 tacatgtttt gtgtcatgta aatattaata ttgtctgatg tgtatatgat tcatggggcg 180
 tgataacgtg atatattgng attatgagag tgtgatgaac tgtgtgtaag agacaagtcg 240
 agtatatgtt aaattatgag atcacgcgtg tattgagata ttgtgtggat taagntatga 300

gttatgaatt gtacaatcac a

321

<210> 12326
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12326

ttaagttctt cctcaaaact gtcttaagca aagntccttt gtcttattag caacttttgt 60
ttgcccacg gtttgtgggt gacaagctgg tgaaaataac aatttactgc ccaacttgct 120
ccacaaagtc ctccaaaaat ggcttaggaa cttagagtcc ctatcactaa caatgctcct 180
tggcaaacca tggagtctca caatctcctt gaaaaacaaa tcagccacat gggaagcctc 240
atcaactttt ntacatggaa taaaatgagt cattttagaa aacctatcaa caaccacaaa 300
aatggaatct ctaccatttg cttgttttgg cagccacaaa acaaaatcca tggataaatc 360
aatccaagga tactccgaaa ttggcaatgg agtatacaat ccatgaggct ttacttagac 420
tntgcctttn tacatacaat gcaatgttga c 451

<210> 12327
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12327

cgagacgctc tanatngaatt gttgaagctc tcagcanatt cacacgacaa taactatnta 60
cttgaatgct tgattgagtc ccgtaatata tcgagacgct cgaaattgaa tgttgaagct 120
ctcagcacat tcaaacgaca ataactatnt tactcggatg tctgattgag tcccgcaata 180
tattgacacg atccgaaatt gaatatctga cttctgagca aantcaaacg acaataactc 240
tgtactcgga tgtctgattg agtccgctaa tatatcgaga cgctctaaat tgaatgttga 300

<210> 12328
<211> 217
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12328

gctatatata tgcatacgct cganataaac atcgaattct ctcgagatat tcatatggtc 60

ataactnttc acacgaatgt cggattcttg cgcataatat gtcgagaggc tcagaatcga 120

acgatagaag ctcttgagaa attcatatgg tcataactnt taacacggat gttcgatcca 180

ggcttattat atatcgatac gctcgaaatt aaacatc 217

<210> 12329

<211> 313

<212> DNA

<213> Glycine max

<400> 12329

agcgtgcctt gtcccttgat atattcgagt tttcatggtg actatgaatg acaaaatcct 60

tgtgataaac gtagtgatgc catgttatca aagcccgta taaggcatac aactccttat 120

catatgttga atagttaagg gtcggaccac ttaactgttc actaatataa gcaactggat 180

ggccttcttg catcaacaca gcccgaatcc caacatatga agcatcacac tcaatttcaa 240

aagatttttg aaagattggc aacgcaagta tggcggcatt agtttagcttt tgcttaagaa 300

catagaaagc ttc 313

<210> 12330

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12330

agcnttgcaa tattgagaat gtgttctttc attttagttg tcaaagttga taagttcggt 60

tcatttttct aattttattc gtttaattgt ttgtattctg ataattaaat tagttatttt 120

agatattata aaatttgtaac aaagtttttag gtatagtaaa ttagtagtgt attaatcttc 180

tatcttacct tagttatagt tttaaattgg aaattagatt tactttgatg atttaagttt 240

tgtacggtag gttcatgttt agttatagtt ttaaattgata ttagttctag ttctagtttg 300

aaataatatt agttctagtt ttaattgtaa atgatattag tcttgtaagt taggttttagt 360

tntagttaaa tatatttaaa ttttttatgg taggttagtt atatgatata ttgtattaat 420

tntgcgtata ta 432

<210> 12331
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12331

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tgataaaaaa gaatgtattc tctatTTTT atgtacaagg aaaagggaga aaaaaatana 60
nnaataataa ctgcggcgct ctagtctcgg gcacattaac gtctcttggc ccgcagacat 120
ttcaattccc acttattcgg aatcgacaca gaatangtta gttcagggtt agagatngct 180
tatatccttg gtttggatnt agaannatat ttaatccana taaatggaat aatggtaatt 240
gacgtaattg gatanggggtg ttactTTTT tgctaatcat taagaattaa tgttatatat 300
anaagtgtaa ataatatgaa aactatatct ataattacac ttatttctat attaaacaac 360
aattgatata ttggtagtta atctcagtaa taataattta tanataaagc ggcaacatat 420
atttattaat attatattta tat 443
  
```

<210> 12332
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12332

```

catgcaagct tctggcccag tnggcccgt aactcacta tgataagcgg tattattaaa 60
ccagacaaag catcaagcaa taaaaccaa aacagataaa gcacctaaac tataagataa 120
gtaagcttct ccagaccata caagtgcacg ccgagcccat gcaaaagggt tggttaagat 180
atgccagatt ccaccaagta tacaatgga acccaaccat acatgcccc caattatatt 240
ttccaaatcg tccacactaa caatccaccc ttctcccca aaagggtgatt ttaataaata 300
tccaaatata atacttggac taagggtcaa attggttatt tttcttacat ctccgcccc 360
cggagcccac gtatcatata tacctncaaa ataaagagcc ttgaatacta gaagaaacgc 420
acctatacct aacaagatta agtgaatacc caaa 454
  
```

<210> 12333
 <211> 378

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12333

 acttgagcat gcttgtagta tgaatagata aattatcacg tggttctaga ttactgcggt 60
 gtttattaat ctatgataca tacataagat tattaactct ctcaaagatc ataacatcta 120
 aatgatattt tttcacatat atagttgaca tngaaatntg ttaacaagtt atatatacat 180
 tatcgtaana tatatacacc gcattatttt atgagtgtgt tgtaactaaa aacataaata 240
 agtgtatatt aacacatgtc tataagatgt gtttaattcac acttatntat tctttaatta 300
 gaataagtct atatattata gctaaagata tctcgaatac atccagatgt acttataatt 360
 acttaactat atcatata 378

<210> 12334
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12334

 tcacctgcgg catgcaagct tgctaaccga tggaagctcc taatatctct cacactntnt 60
 ggggtggggc attcttggat ggctatgatt ttctctgggt ccacttggac cccatttcta 120
 ccaactacaa aatctaagaa aactatatta tctacacaaa aggtacactt ctctatattt 180
 gcattgaggg tgtttttctt aaggactgaa agaacttgcc tgagatgtcc taagtgatca 240
 tctaggctcc tactatacac taaaatatca tgaaaataaa caactacaaa tctacctatg 300
 aaatccctta agacatgatg cataagcctc ataaagggtgc ttggtgcatt tgtgagccca 360
 aaaggcatca ctaaccattc atacaaacca aacttgggtct tgaaagcggt tttccactca 420
 tcaccctttt tcatcctgga ttggtgataa ccactttta 459

<210> 12335
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12335

agctttatat ctttctggcg ccgagctatn ctcccgcagg acctccccta cagtatcgtc 60
 gccgcagtag agtctaacca ccaagttcgg gatggattgg tgtgggttct ctacgcctag 120
 gacaccagaa tatcgaaacca tgaacgaaga aaggcatgag ataaaagcaa atatattggc 180
 tattcattgt gaggccctaa ttctcgactg gaggggacac canaggccta tgcctttcca 240
 ttctttggat agatagagag gaggggcaga gtttttggtt atttcatggt gtcaaagagt 300
 tgaacaatga aaatggatga ctagtgcctg atcgaattga tcggatcatg tatgaacaag 360
 gttcacgtct accggtctgt taggatgcct cagctgcata catcactgca cttccacttg 420
 acacctatca ttaa 484

<210> 12336
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 12336
 atgctatcag tcacctgcgg catgcaagct tctatatttg ttcgttccta atttctctac 60
 aattgcatca cctctcaatg agctggtgaa gaagaatgtg gcattttacct gcggtgaaaa 120
 acaagagcaa gcctttgctt tgctcaaaga aaagcttact aaggcaoctg ttctagctct 180
 tcttgacttt tctaaaactt ttgagctaga atgtgacgcc tctggagtgg gagttggagc 240
 tgtattgtta caagggtgggc acctattgc ttattttagt gaaaaacttg atagtgccac 300
 cctcaactac cccacctatg ataaagagct ttatgcctta ataagagccc tccaaacttg 360
 ggaacattac cttgtttcca ggaatttgct attcatagtg atcatcaatc acttatgtac 420
 attagaggac aaagcaagtt aaac 444

<210> 12337
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12337
 catgcaagct ntaattctga tgagcatgtc tgattcattc tgaaccacag aaatagcatt 60
 aactcaact aaacttctc gagacaatgc atcagccacc atattttctt aaccctgctt 120
 ctattctatg caaaaatcaa attctatgag tttaactaac catttctgct ggaatgctgt 180

agctaacctc tgcataaaaa tataacttgag actcctatga tcggttctta ttacaaactt 240
 cttaggtaac aaataatgtc tccacttctg cactgcaaag acaacaacca gcaattcctt 300
 cttataagtg gatagggact gttgctacac attcaagctc ctgctgatga aggctatggg 360
 atgattgtcc tgcataca 377

<210> 12338
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12338

agctttttaga atatataata aaagaactat gtctattgaa gaataaattc atgttacttt 60
 ntatgagact aactctatta gcccaagaga ggatatactt gatgatatta caaatacttt 120
 agaagatagc cttattcatg aagaagtcca caaagacaaa gaagacaaaa atagtagaga 180
 tgctcaatcc aaagaaaatc aaataaatgt ggatcttcca acggagtggg gaacttcaag 240
 gtaacaccct cttgataata tcataggtga catctcanaa gggataacaa ctgcacactc 300
 tcttaaagat gcatgcaata acatgagatt tgtctcttta attgaacctt anaacataaa 360
 tgaagccata attgatgaac attggattat ngctatgnca gaaagaataa atcaatttga 420
 aagaaatcaa g 431

<210> 12339
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12339

gctatatata tcgggcgcta naattgtatt cagaagctct tgagttattc aaaggggtcat 60
 aactnttaac tcggatgtcc aattcatgag catcacatat agagacgcta aaaaatgaac 120
 aacagaagct ctccagaagt taaaacggcc ataagtcttc aactgatgt ccgaattaag 180
 cttatattat atcgagacgc tcaaaaatta acatcgtaag ctctcgagaa attcaaattg 240
 tcataacttt tcaactcgat gtccgattca ggcgcataac atatacag 288

<210> 12340
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12340

```

ttcgatagcg ggaagagana aaagattatc catagaaaaa ctaaactcaa gccgagaagc 60
aaagaagcaa ctcacggttt gcgaataatt ttgaaaagga gactattaga ggccaggaga 120
ggtgcaacag agagtacccg gtgaaagcgc ttaacaactt ttgaaagtca gacacgacgt 180
cattctcgcc gccaccaccg tgctgtgcag aggcaacatc gactgtgtgc atctcagctc 240
ctgcgaaatc ctacaacaga ccaacgacaa caacgacaaa tcgataattc taaggcttat 300
ttgcgattag gagcaaaaac gaacatcgta tgacgaaggg aaacctgggc aataaggact 360
ggtgaatatg agaaaaggag gaagctggtt tggagaatga agaagcgcca atgtntgaat 420
tgatggctga ttttatagat gaaattgat 449
  
```

<210> 12341
 <211> 388
 <212> DNA
 <213> Glycine max

 <400> 12341

```

tgctattttc atctccttac ttcttcaaaa acatgtaaaa tgatactatt gcccatccct 60
gtttttctac aggccttccc ctttcttgca caccactttt ctttctcttg atatatatat 120
ttttatttaa ttaattatg atatagttaa tcattttaac tataactgaa tgaactatga 180
cacagattat catatgatga cacaagctat ctttcttaa taataatcaa cataattatt 240
atacaaatta gcatcataat atagcaaatt tgcatagtaa ttaacttgag tatttttata 300
aatgataact cctatcataa ttaaacttaa ttggtattca ttactattca aaaaatggaa 360
ttttaatgta taaaagataa tttgatca 388
  
```

<210> 12342
 <211> 387
 <212> DNA
 <213> Glycine max

 <400> 12342

agcttcctta ttatgattcc taaagaagct atagcttagc tacacatacc tctttaatag 60
 ctaagctcac cttcttaaga tgagaagcta gagcttagct acacacccgc tataataact 120
 acgctcacc ccatggcaaa atacatgaaa atacaaaaaa aatccctact acaaagacta 180
 ctcaaaatac ctcgaaatac aaggctaaaa ccctatacta ctagaatggc ccaaatacaa 240
 ggcccaaaca aaggaaaaac ctattcta atttacaaag ataagcgggc tcatgcttag 300
 cccatgggct caaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct 360
 ctagccgaat ctacttgag ccttcta 387

<210> 12343
 <211> 296
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12343

taatcattga ggccttatgg atcatntact ntangaatca aagctagaaa agatgcattg 60
 ctctcttttg gaaagactcc attggcatga aattcattca agaatactag cacatctgat 120
 tntatgagat cccataattg ttttaataaaa ttaacattca gtccatctgg acagggcttt 180
 cggactacca caatcccata tagctgcctt aactggatcc tctttgaaat gagccaccaa 240
 caattcatta tggtgaggat caatggacct gaatctaacc tcaatctctc ccactc 296

<210> 12344
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12344

tcttggaac tatagctctg agatactgct ctactatcct gttcagcacc tctgtttgtc 60
 catcgctctg cggatggtac gcagagctca tgcgtaaatg agtgccgcta gccttgaaca 120
 gctcttgcca aaacttgctg ataaagaggg ggtccctatc ggaaaccaag cttcgaggaa 180
 tcccatgtat ttaaccacc atgtcgacga acaaggatgc caccatatga gcagtgtgag 240
 acgttggtaa cattcccaga tgaatccctc tcgaaaaacg gtccaccacc acgagaattg 300
 tggtttttcg tgatacgccg gcaggccgac aatgaaatct aacgagaggt cctcccaagg 360

tcgatggngc accggttaagg ggcataatag tcctgcgacg cgttgtgtct ggtacttagt 420
gacctgacaa tccatgc 437

<210> 12345
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12345

gcagacaatc gcgttccacg gtttccaacg gcacagcccg atgtaatggc agcgaacccg 60
ccaagcaggc cgttacacac gtcaatcacg ttccagtggc caaccaataa ccgcttgctg 120
aacaacgtcg tcagagccgc agtgctccca gccaatgtcg tcgtgacagc tgtcctccct 180
atagcgtccc attgaccata atacccttca cttntcatac ccttgtctat tgtcacaaac 240
gaaccagggt tgaagccgta ccagccgaac cataacataa acgtaccaag cacaactaaa 300
gacgcgctgt gyccacgtaa agcaaccg 328

<210> 12346
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12346

aagattactc attgtataga attctgcana gatattctcc attattggca tgaagtcagg 60
atcttggcac atccaaatac aagaatctga taggtacaat actgtcttca ctgtaccttt 120
cgggcaatat gaatagaacg ttatgccatg tggtttgaag aatgccccctt cagaattcca 180
aacaatcatg aatgacatct ttacatccta ttcanaattn ttcattatct atatatatga 240
tgctgtaact gtttctcacg atattgatca atatctttaa catctgtaga ccttcattca 300
cattatcaaa caaaatgggc ttacgggtct ccaatcgaac atcaatc 347

<210> 12347
<211> 280
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12347

ctcaagagct tccgtngetc aatttcgaac gtgtcgatat attatgcgcc ggaatctgac 60
atccgtgtca aaagttatga ccattngaatt ttctcgagag acttccgtgt tcaatttcga 120
gcgtctcgat atattatgcg ctngaatcgg acatccgagt gaaaagttat ggctatatga 180
atctctcgac agcttcccgt tgttcaattt tgagcgtgtc gatataattat gcgcctgaat 240
ctgacgtccg tgtcaaaagt atgaccattt gatttctcga 300

<210> 12348
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12348

tgctntcaag aatttcaaatt ggtcataatt ttgacacgga ggtcagattc aggcgcctaa 60
tatatcgaga cactcgaaat tgagcaacgg acgctctcga gaaattcaaa tggtcataac 120
ttttaactcg gatgtctgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac 180
ggaaactctc gagaaattca aatgctcata acttttctact cggagggtcag attcaggcgc 240
ataatatatc gagacgctcg aaattaaaca acggaagctc acgagaaatt caaaagggtca 300
taac 304

<210> 12349
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12349

agctnttaac attggttatn taggactntc atcatcagtt attaaccgat gatgaaagta 60
ttatcggtta catcggttnt gttgaaaact gatgttaacg taaaattaca acatcggttt 120
tttaaataac cgatgttggt agtattcgtc aacatcggtt ttttaaataa ccgatgttaa 180
ctaaaactga tggttaacgtt ggtagttaac atcggttttt taataaacca gtgttggttag 240
tgtaggttaa catcggtttt ttaaaaaact gatgttggtta gtggatgtta acatcattnt 300
ttttaaaacc gatgttgctt ttaggaattt ttttaataata ctgtctgctt tttcaataaa 360
cccaaaaatt aagctgcana tttaaattag atcacacaac acaacatata taattttcat 420

tct

423

<210> 12350
<211> 310
<212> DNA
<213> Glycine max

<400> 12350

gaccaccata cagacctttg cccttccatg cagcaacctg gagcaatcga gcagcctgaa 60
gcttatgatg caatatatta caatagacct tctcaacctc agcagcaaaa tcaaccacag 120
caaaacaaat atgacctctc cagcaacaga tacaacctg gatggaggaa tcacctaac 180
ctcagatggt ccagccctca gcaacaacaa cagcagcctg ccctttcttt caaatgctgt 240
ggcccagcag acatacatc tcaccaacca acacagcaca cctagaacac caacgtgagg 300
ccctcacaac 310

<210> 12351
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12351

agctgttatg atctgtgtgc acaataaatt ctctgccccaa taattaatgt ctccagggct 60
gaatacaaag cacaagggcc atcaattcct tctcatagac agattttgcc agattcccat 120
cagataaagc tttactgaag aaagcaatag gtcgtctctg ctgcattaga acagcaccta 180
tacctctgcc agccgcatca cactcaactt caaaaggtaa atcaaaaattt ggaagaatta 240
gcacaggggg ggaagtcatg atccccctca tctcctcaaa ggccttgaca gcctctattc 300
cccaagaaaa attgtctttc ttaatcaatt cggtgagaag ggttgctatt ttaccatact 360
tctggataaa ccttctatta taccctgcga gactcaaaaa accacgtacc cccttcacat 420
tctttggtgt gggccatgcc anaatacact tcaccttttt atgggccact gcccacct 478

<210> 12352
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 12352

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tctggttaagc tactgggctg agcnttttgaa tgactnngaa ggtgccgtag tatctntatg   60
caagtttctgt gtatggtgcg cccacgaagg tggattggcg tcttgatgg agttttacca  120
gaaccatgtc tccttcngtg aagtggagtt cgcgatggcg cttgtctgca agttctttca  180
tgtgnttggtg ggccttgaac agtttggtgc gcaagctctt gaacattaag tcgcgatcag  240
ttaaccaagt gtcgacaacg tctatatattg aatttctcgc cacgtattga ggaagggtgt  300
ggtggttctt cccaaaggta atctcgtaag gagacatgcc tgtagcggag tggacagagg  360
tggtgtatga cactccatc cacattanga agcgaccca tgttgagggt ttgtcgtgaa  420
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<210> 12353
 <211> 562
 <212> DNA
 <213> Glycine max

<400> 12353

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agcttaagct ccttcaactg cacattgttc ttaatatattg aagagtatcc ttatggaacc   60
ttcacccgac gaagacactg acaaaaactt atcttctcct tcttgacaa agtatggcag  120
gctgggggga agtaaatttt cttcccatca gaccttggat gcaactgtga tcttataccc  180
atatcaccta gatcttgacg ggtattcaag ccatecttcg tcttgecttg aatgttaaag  240
agcgtcccaa tcacactgtc acaaacattt ttctcccat gcataacatc aatacaatgt  300
ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt ttccatatgc  360
aactctgact attatcctct ctttgggtct tcccaaatac agtggtcagg tgttgaaccc  420
gctgatatac ctgctcacca gtcaacggtt tcagcgtgtt agaaagcggc gatgcctact  480
gtagactggt tttcttccat gtttcagttg tatgtaactt gcattttctt cacagatggg  540
gcatgcatga tgaccttaa ca                               562
```

<210> 12354
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12354

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aggttcagac gacagtgatg aggcgaagcc caacgatggc ccaaaacgat gcagcatctg 120
caataagcgg gttggtttga caggatttaa ttgtcgatgc ggtgaccttt tctgttctga 180
acatcgctac tcagacaagc ataattgcc atttgattat cgcactgctg caagggatgc 240
catagctaaa gcaaatccaa ctgtcaaggc tgagaaactt gttaagatct agatttgntg 300
tctctacagt tcatgctcta ngtgctagta tgctcattgt ngctctcatg agatg 355

<210> 12355

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12355

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cttatctgga tcacagacac ttagctaagc tataaatggc catgagtgag caggtgacca 120
cactgagaag agtgggggaat acatgctaatt gtcattccac atgtggagta tgagaaggag 180
caaagctaatt ttcttcagaa taaccaaagt tctaggaggg ttgttagcct ttggaaagtg 240
gtttgatcag atatgcaatt ggaaaaaccc tctcacatcc atactcattc atatecgttt 300
cataatactg gttctttatc cagagctaatt acttccaaca atttttcttt accttttttt 360
ggttggaatt tggaattttc gatggaggcc aagacactct cctcatatgg acacaagact 420
atcacatgct gatgctgctc atctgatga act 453

<210> 12356

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12356

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tgtgacttgg agacacgaat nnaaagagag ttttcattgc ccaaaaagtt ttatcctctc 120
aaaagattaa gagaagtttt ctgaactgaa atgtcttata ctctcaaaaa gattccttgg 180

tcaaccactt gcatattcaa taaggaatat tgattgatct tcattgtaca atctatctct 240
 ttttaagagag atntcttctt ctcttcttct tatttctgaa aagggattaa gagaccgtgg 300
 gtctcttggg gtagaggatt cctgaacaca agggaagggt tgtccctgtg tggetcaaac 360
 tttgtataag gagttttaca cagagagtgg cacatctcaa gtg 403

<210> 12357
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12357

agacacgtta cttggagtaa tgtggtgggt tcttaaatat aatttcaaat ggngattttc 60
 atttgttaga tcatgttggg gaatgccaca atttattgag ggaggactat ggacatgggtg 120
 aatntttgga ggggacatag aagattgcaa cttatacacc tgatcttcag tctttccttg 180
 cagaagaacc gctcccgttg tcaggctctt tacctcaaaa tgcaaggga aaattcaaca 240
 gacacagagt tagtttgacg taattgagaa acagaaatga gatthtgaga gacagaggga 300
 acatagtata ttggaaagac gaagagggat ggtaggggtg ttcaattcag ttgagccatg 360
 atgttgaatg aaaagaccct tatcattggc aatgtgaagc tgatccggac cagtgcagtc 420
 attggaaatn agagacaatt gatgatgt 448

<210> 12358
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12358

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 agcgattagc aggacagtc ttctactgtt tcttatacgg gtattcagga tacaatcaga 120
 tagcacttga gcctaaggac tatgagaaga caacatttac atgccttttt ggtgtttttg 180
 cctatataag gatgccattt gggttatgta atgcacctgc cactttccaa aggtgcatgc 240
 tagccatctt tgcggacatc ataaagaagt gcatataagt cttgatggac aatttcttag 300
 tgcttggttt atcctttgat tgctgcctga cgaatttaga gatggtgctg cgaagatgtg 360

tcgagaccaa tctggtacta aactgggaga agtgtcactt catgggttoga gaggggatag 420
tcttggggcca taaaatttca gccccgggca ttgaggtgga taaagcanaa attgacatca 480
ttgaaaa 487

<210> 12359
<211> 669
<212> DNA
<213> Glycine max

<400> 12359
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acattttgca gtaacattca tggactgagc taattaaacg gatcgggcaaa tctggcttac 120
cttgccatgt gctttgagtt tctctgagtt tttgtttcct ctttttttgt gtaatatagg 180
gcggaacaaa agaaagaagg aaggcttagc caagtcaaca gaagattcac ttaaaaacat 240
gagttaacat ttcacatgta tactctcttt cctaatttgg ttttctttct ggtaaaattc 300
gtgaggaagt cacaataaca aatagttttt cactataaag taattatggg aatatttggt 360
gtataaaata tttaaaatga gaattttatc ataaaaatat ttgcacttat cttggtaata 420
aatactggta catgcactaa attatatatc taataagaaa ttcatatgtg tatatcttga 480
acattgaata tttagaatga gaatgttggt gaactagctg tactcatcct cctataaatc 540
atattttggg tgtgttgca tgttaaaagt ataaagtacc taattttgtt gtacaattta 600
atcgatgatt ctaatgggtc ttcactaat aaaaaatatt aatgtttaga tattccttgc 660
gaataatac 669

<210> 12360
<211> 504
<212> DNA
<213> Glycine max

<400> 12360
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aatttctcga gagcttccgt tgttcaattc cgaccttctc gatatactat ccgccagaat 120
cggacctccg ggtgacaagt catgaccatt tgaatttctc gagagcttcc gttgttcaat 180
ttcgagcgtc tagatatatt atgcgcctga atcggaactc ccggggataa gttatgacca 240

tttgaatttc tcaggagctt ctggtgttca attccaagct tctcgatata ttatgcacct 300
 taatcggact accgtgtgaa aagttatgac catttgaatt tctcgagagc ttccgttggt 360
 caattccgac cttctcgata tactatacac cggaatcgga cctccgtgtg acaagttatg 420
 accatttgaa tttctcgaga gcttccgttg ttcaatttcg agcgtctcgg tatattatgc 480
 ccctgaatcg gacttccgtg tgat 504

<210> 12361
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12361

agcttgtagc tctttgtcat tgcaaatcat gcttgcttgg cggtagtagt gggtcacata 60
 agtgccgacc caggtctcaa ttgcagacca catcaaaagt ccatccgttg cataagggtg 120
 gtcttcaatt aagagctcta caccatttgg ttgtgttggg tctggtaccg ccattcccct 180
 gcgcatgaga tctgcaggga ggccctccat gtcaaagctc cacccgtttt tgtatgctcc 240
 acaactgac tccatgcagt agcgcccagg agtaaaacaa gactcaatga ttccatcagc 300
 attgatcagt ttctggcgag cttaaagcatt gatgtctaac gtgtacctca tgtgtggatc 360
 caacagctta aagacacgat gcattgcact taattgccta tgagcaaaca atattaaatg 420
 gttccatgcc cgcagtgtgtg cgttacctgt atacaattaa tttaacaaaa ttatcccac 480
 ancatgcat 489

<210> 12362
 <211> 583
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12362

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 aatctgtacc tgtcgcaagg gtttgtggtt tgtgtcctc tactgaccac cattcaggcc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcctat gctacaaata 180
 tttaaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240

tctccagcaa cagatacaac ccttggttga ccttggtggc tcaataatct taagagggat 300
aggcttagaa tacagaagaa gcaacaccaa tcaatttaac aatgttcttt aaacatgcaa 360
gacacaattg attgcaacan aataaataag ataaggggaag agagaatgca aacacagttt 420
tatactgggt cggccacaac cegtgcctac gtccaatact caagcaaccc acttgagatt 480
ccactatctt tgtaaaatct ttaaaagtct gacnccacag ggcaacccat tcttttgtca 540
gatgcttaca acaagagact acagtctctt accaatctca ttg 583

<210> 12363
<211> 619
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12363

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cgtttaataa gtttcacaaa atcaaatata atttatttta ataaatttta cagtgatatt 120
tacaaatgag ttttactaaa taattgcttg attaagttat ttatctaaat acatccaaaa 180
ctaattgtca ttcataaaac accactaatg tgattgaaat aatttcaaaa tccagtgggt 240
cagaaaataa atgataagga aaggataaaa aactgccttg aaaatttaga gcatgtataa 300
caatgaaatg agactagctt tcatgtaatg tcgctaaaga aaaacggatg ttgatagtaa 360
caaaattggt tctaaaatgc tgggttgcaac aagttatctt tggttctttc attttcagta 420
tcaagcatgt ggtctgtgct tcaacaagga tggatttaaa ggttggtgaat ttttgtatag 480
gagacattat ccagacaaac acatgggtccg tgaaattgta cactgatact ttntaatgta 540
agaaagggtt tcaagttata tctaancgaa ttagattcgt atagcgacan tattctatct 600
atttctttta tttattttt 619

<210> 12364
<211> 550
<212> DNA
<213> Glycine max

<400> 12364

agcttgatga taaaagtgag aagtacatgt ttgtgggtta cgactcaaga tccaaggggt 60
acaagctcta taatccaaat agtagaaaga tcgtcataag tcgcgacgtg gagttcgaag 120

aagaagattg ttgggattgg agtgttcaag aagataagta tgattttctt ccttattttg 180
aagaagatga tgaaattgaa taaccaatca tagaggaaca tattacacca cctgcctcac 240
cgacaccaag gctggatgaa acaagttcaa gtgagaggac accgcgacta aggagcattg 300
aagagattta tgaggtaacc aaaaacctaa acgacattaa cctcttttgt ttttttggtg 360
tttgtgaacc tctaagctat caagaagcag cgaaaaacat aaagtggaaa gacaccatgg 420
acgaagaaat caagtcaatc acgaagaatg atacgtggga acttactaca cttccacgag 480
gacacaaagc aatcggagta agatgggtgt acaaggcaaa gaagaatgct aaaggagatg 540
tgagagata 550

<210> 12365
<211> 609
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12365

agcttcttgt ggttgaagaa cttgctccag tcggtgttga agaggtggcg acatggcgtg 60
ccgcggtaga tgtggtggaa gcgccactca acgccgtgga tgtcggcgac agagaggagc 120
tgataggtg gatcggcata aaagtcgagt ggagggaagc acaagtcggc gcaaaagcac 180
ggcacggaga agccaccgct gttgttggcg tcggagggag tgaggatctt cacaaacgaa 240
acgacgccgt tggctctcgcg gtctttatca tcattgtcat ttcgaacctc cttggtgttg 300
ttttggaaag gttgttgttg tgattgttag aggggagtga ggaggaaactt ggcggggaca 360
aaggggagag agcggataag agggttgttg taatgcgagg gagaggcatg ctccatgtga 420
ccctangcct aggggaagca gtaaacccta ttcacacatt aattttggga atgagaacga 480
agacgagtn taagtaaaac ccgtcgtaat tttcattcca ttaaattaca agattgocaa 540
caacatacat tctaagacgg tnttgataa tcacctaga atgttagtca taaaagatt 600
ttttattta 609

<210> 12366
<211> 505
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12366

agcttggaca atggcaggga gtcgcaacct acccttcgac gggagggcga cacaagggct 60
cacgggtgcg tcttccaagg gaggaaggcg cgcggagtcg ccaccaatgt tggttaagtt 120
gtttttatct ttttttttgc aagatatatt ttaaccgaac aaaagtcgtt taaggcgttg 180
gaccattaaa cgatcttttg attcttttga aaggagagaa acgttaaggc gttggaccat 240
taacgatctc tgggtagaga aacgttaagg cgttgaatca ttaacgatct cttgggggtg 300
tcgacaaaag cgggggtttt gctcctacgt atcctcaatt gcgatgagga aatcagacct 360
acgtagtctt tgcaaaagcg gtaaagttat gtgttgattt tatgcttttg aacgggtccat 420
gttaactgat aaaagcaaag aggaccgttt aaggcggttg actntaaaac ggtttcaagt 480
gatttttgca gacaaagctt gattt 505

<210> 12367
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12367

gtataatata tgtatgagca catatgtaaa atagagtata tcagattcct cttaatctca 60
agaggatcaa aatacctcac gctcagtaat ggggtaacga caagagtgac accgaaagca 120
gtctggatga aaataattat gaccaactcc taaacaattg ccatagagta tctcttggtt 180
gcacctcca catgttctat tatgcgattg catactgcac attaccagtt gtcaataaga 240
aatgattgag cacggtcatc ataatgcatt agcatcacia gaatgaaatc aaaattaatt 300
acatgtatgg agaagtcaac agagaaatca aaacttattt taannatttg ttcaaattta 360
tgctaacaac acaatgacat acata 385

<210> 12368
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12368

ttcacaaatc atctataaaa acttgctaag ccaggaaaac tcttcacctc agtcacagac 60

ttaggtgtag gccattcttg aatagcccta accttcattt caccaaaactg cactgcctgt 120
 gaacttacaa cccatcccag aaacacaaca tggctagtag aaaagatgca tttttcaacg 180
 attggcatac aattgttctt ctctacgcac acacaggaca aattntatat gatcaatatg 240
 caaagtctgt gaagcgctgt agacaataat atcatcactg tacaccacaa tgaactttcc 300
 tatgaactct ctcaagatat ggctcattaa tct 333

<210> 12369
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12369

gagtcccgtc atatatcgag acgtctcgaa atgaatgttg atgctctgag caaactcaaa 60
 cgacaataat atttacttgg atgtctgatt gagtcccgtc atatatcgag acgtctgaaa 120
 atgaatgttg atgctctgag ccaattcaaa cgaccataac tttttactcg gatgtctgat 180
 tcagtcacctg cacatatcga gatgctcgaa attgaatgtt gaagctctgg gccaatcan 240
 acgacaacaa cattttactc ggatgtctga ttgagtcctg taacatatcg agac 294

<210> 12370
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 12370

cttgacgact gcatataact ttatctgtcc gccatactac atgaaactca cagaatcctg 60
 catgaaagac cgcactatgc gacaacaatg cggcacagtg gatgaaaatg gcgccacata 120
 gggaagagct ggtatgatat ctgaagtctg tatctggaaa gatagcacat gcgtggaata 180
 ctcatacatc cttcttcate aacatctgct caaagttatc agccacaacc gcctccgcaa 240
 tctgggtact acagtcacac aaaagcaggt catgggtacta attcctatgt ttgcgcataa 300
 catcaagcta cgc 313

<210> 12371
 <211> 236
 <212> DNA

<213> Glycine max

<400> 12371

atggtgatgt ggatgatttc tccagaatga cctgggtcaa ctttatcaga gagaaatcag 60
aaacctttga agtattcaag gagttgagtc taagacttca aagagaaaag gactgtgtca 120
tcaacagaat cacgagtgac catggcagag agtttgaaaa cagcaggttc actgaattct 180
gcacatctga aggcatact catgagttct ctgcagccat tacaccacaa cagaat 236

<210> 12372

<211> 616

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12372

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atattattaga cacatataaa ttgatcaaat taggtgtaca aattaagggc cctatcaatg 120
aaatccaaaa atgatttaaa agtatagatt aatatacaat tagtgatttg agttaatagt 180
tattaattaa tttntaatt ttaattttta atttaaaatt aacaacaaat taattgttta 240
taactctaga gaatgccacg tgtcaacatt tttttttata gaaaatattc ttgtatgtat 300
agactataga ttatatccgt aacaattgaa gacggatatt acaagtttta ctacaattta 360
tatacattgc ttaactaatt gagcgagaca tatgacaaaa tatagaaata attattttta 420
ataaaaatag aaatataaca ctttttctat tgtgttttaa ttaaaatata gaaaaattat 480
aattctttgt ataacattat agttttattgt aaacaatatt tttagtatat attatgtgtg 540
tgtatcatta aaaacaataa tctaaattat gacatatntt ttggtagaat atggttctca 600
tatatcaatg ataact 616

<210> 12373

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12373

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ctaagctcac ctcccttgata tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcaccc ccatgacaaa aaacatgata ataacaaata atagtcctta ttacatagac 180
aactcanaat gccccgaaat acaaggctaa aaccctctac tactagaatg gccaaaatac 240
aaggcctgga cgaaggaata acctattcta atatttacia agataagcgg gctcatactt 300
agcccatggg ctcaaaatct accctaaggc tcatgagaac cctagggcct ttccttgat 360
ctctagccca atctacttgg agtcttct 388

<210> 12374
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12374

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cctatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggatgatttt 120
tccagatata cctgngtcaa ctttatcaga gagaaaacag acacctttga agtattcaaa 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat taagagtga 240
catggcagag agtttgaaaa cagcaagttt actgaattc 279

<210> 12375
<211> 546
<212> DNA
<213> Glycine max

<400> 12375

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gcagaacaat tatgacctct ccagcaacag atacaacctt ggatggagga atcacctaa 120
tctcagatgg tccagccctc agcaacaaca acagcaacct gctccttctt tccaaaatgt 180
tgctggccca agcagaccat acattcctcc accaatccaa caacaacaac agccccagaa 240
acagccaata gttgagacce ctccacaacc ttccctcaaa gaacttggtga ggcaaatgac 300
tatgcacaac atgcagtttc aacaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattctg acaagctgcc 420
ttctcaagct gtccaaaatc taaaaaatgt caatgccatt tcattgaggt cgggaaagca 480

gtgtcaagga cctcaacccg tagcaccttc cttatctgca aatgaacctg ccaaacttca 540
ctctac 546

<210> 12376
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12376

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ccatggacgt gtccgaacat ttgtttcagt gtgaagaata gtaaaatctg gagtgggcag 120
taccgaagct tttgtcatta attcctttaa cttgcaaata ctttgtgtgc ctctgagtgc 180
cacgagagtt gatccttgca aatgagagat gttaaagggt ccacgatggc gacatagccc 240
tagattaatt tttggcaaaa ccctatcaga cccaagaatc cttttaaagt atgaggagaa 300
gtaggggagg ccaatccacc atgacctgta ttttatcang gtacgacgtg acacctgga 360
caaataccat gtgtctgaga tactacagtt ggggtgtgggt gaanacacac tt 412

<210> 12377
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12377

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tcttgagttt gcagaccata cttntatca gaatcagcaa atccaggtgg ctgggtcatg 120
tagatttctt ccaaatagcc attaaggaaa gcattgttca caccaattta ctgaatagac 180
cagtgatgag caagagcaat agtcaacatt atttgatng tgacaggttt cacagcaaca 240
cgtggaaagg tttctgaata atcctgacta gttatttgat taaatccctt ggcaaagcta 300
ctagccaaca gattgaagaa cgtcatgccg ttcacatag acaaaaggca atctgcattc 360
a 361

<210> 12378
<211> 585

<212> DNA
 <213> Glycine max

<400> 12378

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tttgcccttt catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata  180
tttacaatag acctcctcaa ccttagcagc aaaatcaacc acagcagagc aattatgacc  240
tctccagcaa caaatacaac cctggatgga ggaatcacc taacctcaga tgggtccagcc  300
ctcaacaaca acaacaacaa gctgctcct tcttccaaa atgctgctgg cccaagcaga  360
ccatacattt ctgcaccaat ccaacaacag caacaacccc agaaacaacc aacaattgag  420
gccctccac aacctttcct cgaagaactt gtgaggcaaa tgactatgca gaacatgcaa  480
tttcagctag agaccagagc ctccatttat agcttaacca atcaaattggg acaattggct  540
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```

<210> 12379
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12379

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agtctccata canagtcagg ttaaegatta ctgcctgtg ctntttcttc catgctatat   60
gtagcanagt cattgatcca gtcattgttg atgagttgga aaatgaggcc gcaattatac  120
tgtgccagtt ggagatgtat tttccccctg ctttctttga catcatgatt cactttgatt  180
gtgcatctgg tcagagaaat caaatgttgt ggtcctgttt atctatgggt gatgtaccg    240
gctgagcgat acatgaagat cttaanaggg tatacaaata atctatatca tccagaagca  300
tctattgttg agaggtagat tgcagannaa gccattgaat ntttttcaga atacttagag  360
aaggctaaac ctgttggcct tcttgagtct cgacatgatg acagagtggg tggttaagggt  420
tcaagaggac tgcattgat cac                      443

```

<210> 12380
 <211> 528
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12380

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agcttgatac aagattctcc ttgcctggct cttcattacc ttctggntgg gtcatataga 60
tgtcttcctc taaatcccca tgcaagaatg cagttttaac atctaactgc tccaagtga 120
gattctctgc agctactatg ctcagaataa ctctgatggt agtcactctt acaactggag 180
agaagatctc tgtgaaatca attccttggt tctgctgaaa ccttttcacc acaagtctcg 240
ccttgatatc tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300
atgccttctt tccttctggc aatttagtta aagaccacgt cttattcttt tgaagggatg 360
tcattctatc tttcatcgt agctccact caatagtgtc attccctgt gtagcctcat 420
tgaaacattc tggctcacca gcacagtta acaacaata atgcaatgaa ggggaatacc 480
tatctgggtg tactgaaatt ctgctatatt ttcttgagg agttgatg 528
```

<210> 12381

<211> 369

<212> DNA

<213> Glycine max

<400> 12381

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agcttgtaag atttgcaaga atttcttctc tgtacaactc cttgaaaatt attgccatca 60
atataaagat atgacaattt agagagtgat ccaagacttt caaatggatt tccactgaat 120
ttattaaaag agagagagag agattttaaa tctatctccc ttaagttgag gagattaccc 180
aaaaaagtcg gaattgttcc ttcaagttga ttacgtgata aatcaagttc aacaagagaa 240
gtcaaatttc ccgaagaagt tggaatggtt cttcaagtt gattatatga caaatcaagt 300
tcaacaagag aagtcaaatt ttccggggca tcagaaatag tcccatgcaa gttgctggaa 360
cttaggtcc 369
```

<210> 12382

<211> 359

<212> DNA

<213> Glycine max

<400> 12382

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cgcatgcaag cttccacttt taagggataa cacatgaaca gcgctaggca atgacattca 60
```

tgggtgctccg aacaaagggtg gagtatggag gattgccttg aggggtccgca cttatgcaat 120
 catgaaactc agctccaaac ttgaaagtgg aggacacatg aacaacccta agcaataaca 180
 ttcattgtggc tccgaaaaag gatgagaatg gaggattgcc ttgagggtag tctcttaggc 240
 aatcatgaaa ctcatctcca aactcaaaag tggaggacac atgaacagcc ctaagcaata 300
 acattcatgt ggctccggaa aaggatgaga atggaggatt gccttgaggg tctctttt 359

<210> 12383
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 12383
 aaaatggcct cagcaaactt cttaatctct atggaaattc aatcaatagg cctccaatct 60
 ttaatggaga gggttaccac tactcgaaaa ccggaatgca aatttttatt gaggcaatag 120
 acttaattat ttgggaagcc atagaaatag ggtcttatat atccaccaca gtagaaagaa 180
 ttacaataga tggaagcaca tcaagtgaaa gcataacaat agaaaaacct agagatagat 240
 ggtctgaaga ggataaaaga cgagtacaat acaatttaaa agccaaaaat ataattacat 300
 ctgccctgcg aatggatgaa tatttcaggg tttcaaattg taagagtgt aaggaaatgt 360
 gggacactct acacttaaca catgaaggaa caacatatgt taaaagatct aggatatata 420
 cattaactca tgaatatgaa ctat 444

<210> 12384
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 12384
 tgctacaaac atctacaaca gacctcctta atttttcagc aaaatcagcc acaacagaat 60
 aattatgacc tctccagcaa caggtacaat ccgagtggga gaatcatccc aaccttagat 120
 ggtcgaatcc ttcacaacaa cagcagcaac aacaacaacc ttattttcaa aatgctgctg 180
 gcccaagcag accatacggt cctccaccaa tccagcaaca acaacagcaa cagccccaaa 240
 aacagcaaac agttgaggct cctccgcaac cttccctaga agaacttggt aggcaaatga 300
 ctatgcaaaa catgcagttt cgacaagaga ccagagcttc cattcagagc ttaactaatc 360

agatgggaca attggctaca cagttaaate aacaacagtc ccagaattct gacagaatac 420
 cttctcaate tatctagaat 440

<210> 12385
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 12385
 aaaccgaagc tcctagcaaa ttcgaacgac aataacggtg cactaagaag tccgattgag 60
 tcccgcagga tatcgagacg ctcgaaagtg aaaaccgaag ctcgtagcaa attcgaacga 120
 caataactgt tccctcgga gtcgcactga gaccgcgaat atactgagac gcgcgaaatt 180
 tagaaccgaa gcttggagca aaagcgaaca acaataacaa ttcactcga 229

<210> 12386
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 12386
 cttccgactg aaaacttatt gtcgttcgaa tttgctacga gcttcgggtt taaatttcta 60
 gtgtctcata tatattccgg gactcaatcg gacttccgag tgaaatgtta ttgtcgttcg 120
 aaattgctag tagcttcggt tttaaatttc gagcgtctcg atatatttcg ggactcaatc 180
 ggacatccga gtgaaatgtt attgtcgatc gaattattgct acaagcttcg attttaaatt 240
 tcaagcgtct cgatatatta cgggactcaa tcggacttcc gaggtaaaag ttattgtcgc 300
 tcgaatttgc ta 312

<210> 12387
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 12387
 gtgcagacta agtgcacc aacactagat aagaatttct tggttgtttc atgaaacctc 60
 tgatgctaga tcaccattca ggaatgccat tttcacatcc attggatgca gcttatgac 120
 aaaatgagct actaatgcca gaattactcg aagagagtct ttcttagata caggggaaaa 180

agtctctctg taatcgaatc cttctctttg agtgaatcct ttagcaacca gtattgcctt 240
 atgtctctca atgggtgcctt ctgagtatct ctttgttgag aagaccatc tacatccgat 300
 ggcttttaca ccaacaggca actcatcgag atcccaatct tgggtagatg ccatagaagc 360
 catctcatct ctcatagcat tataaccaca agttgattcc ttagaactca tggc 414

<210> 12388
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12388

gcatgcaagc ttagaagaaa agcncgtgtt ctgagatttg tgggattttt tgangnnggg 60
 ctaggntacg tagggcaata cagccccaac gtgagatgga tgcttcttgg ttatgtggga 120
 gagactgatg cagggctttt ggaattctct aagggtgccc ccagtcttca gaaacttgaa 180
 atgagaggat gctccttttt cagtgagtat gcactagcta ttgctgcaac tcaactgaat 240
 tctctcaggt acctatgggt gcaagggtat agtgcctctg catctggacg cgatcttctg 300
 gcaatggctc gccctatttg gaacattgag ctgattcctt ctagaagcgt ggttgtttagc 360
 aatcagcaag a 371

<210> 12389
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12389

tggatgatcag tcaggatgat gaaaggatga ccataaagta gtggtgccac ttgagtattg 60
 cagttgtaat tacatgaagc tcacaaacat aagtagaagc ttgttatagc ctgnnggcaca 120
 attgcttggc tatggggtgg gagttctgta acaggactgc tcctatggcg gtgccggagg 180
 cgtcggtttc aatggtaaat tgaattgtaa agtctggagt ggtgagggca ggagcttggg 240
 tcatgatggt ttttaattgt tgaaaagctt cttgagccgt gggactccat gaaaatttgt 300
 ccttacaaa gagcgtagtt aacgggtgctg ctatggcggc ataacttctg atgaattttc 360
 gatagaatcc tatgaggctc atgaaacttc tca 393

<210> 12390
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12390

```

ngaaggcaaa ctggatgcat tggttaactt ggtattctat ctgaccttga accagaaatc 60
tgtacctgtt gcaaggggtct gtagtttgtg ctctctgct gaccaccata cagacctttg 120
cccttccatg cagcaacttg gagaaattga gaagcccgaa gcttatgctg caaatattta 180
caatagacct cctcaacctc agtagcaaaa tcaaccacag tagaacaatt atgacctctc 240
tagaaacaga tacaacctg gatggaggaa tcacctaat ctgagatggc ctagccctca 300
gcaacaacaa cagcagcctg ctccctcctt ccaaaatgtt gctggcccaa gcagaccata 360
cattcctcca ccaatccaac aacaacaaca gccccagaaa c 401

```

<210> 12391
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12391

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nntgacggac tatacctage tctaggcacc agggatggat aaagatctat atataggctg 60
gctaagggtg gagagaggaa gactagagat ttggatcaag taaagtgtgt taaggatgaa 120
gaaggcaaa tcttagtgca tgaaaaagat atcaaggaaa ggtggaaggc gtatttccac 180
aacttattta atgatggata tggatatgac tctagcagtc tagacacaag agaagaggac 240
cggaactata agtactatcg tcggatttag aaacaggaag taaaggaagc attgaaaaga 300
atgagtaatg gtaaggcggt ggggccagac aacataccta ttgaagtgtg gaaaactctt 360
ggagatagag gtcttgagtg gctcaccana ctctntaatg aaattatgag gtcaaaacgc 420
at 422

```

<210> 12392
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12392

agctngagag ccttccaaag ctttcaggna atcttgccac acaagnggcc tccatgaaga 60
aytgacacag agaagccaaa gancctatag aagctggaag ctgctgagc attttacatt 120
tgttcaatct taaggtgaca agattttcta gccatccaat ggactctggc aattccctga 180
tatttccatt gaacatgttc agtgtagtaa gaaatgctag gcggccaata gattctggta 240
aatattcaag atttttgcaa ttcacatct caagtttctt caataatttc atctctccaa 300
tctcatctgg caaatctgtg atggttgttc catctaactg aagctcaaca actgaag 357

<210> 12393
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12393

agcttggcaa acatagntga tttataaggg ttatctcttc tagatagaag cataatatca 60
tctgcaaaag ccaaatgaga tagctgaata cctgcacagt tgagatgaaa tttaaaattg 120
gcatcatcct tgaggctgct catatctctg gaaaagtact ccaaacagag cacaacaga 180
taaggggaga gaggatcccc ttgtctaaga ccccgctgtc ctttgaagtg accataaatg 240
gatecattga ctgccacact aaaggaagta gaagaaacac attccatgat ccaagtacag 300
aaatgagctg ggaagccaat ggacttaagc atccaatcca agaattccca gaaaatggaa 360
tcataa 366

<210> 12394
<211> 363
<212> DNA
<213> Glycine max

<400> 12394

agcttgaaag gtagtcatac cttataaaat atatatatgt ttgttttaggt agaaagatac 60
cttagatatg catgtatgta aacaaaaaaaa tacttcacaa aatatatata tgtatgttta 120
ggtagaaaaga taccttagat atgcatgtat gtaacaaaaa aatacttcac aaaatatata 180
tatgtatgtt taggtagaaa gataccttat atatgcatgt atgtaaacia aaaaacactt 240

cacaaaatat atatatgtat gtttaggtag aaagttacct tctatatgca tgtatgtaac 300
 aaaaaataact tcacaaaata tatatatgta tgtttaggtg gaaagatacc ttagatatgc 360
 atg 363

<210> 12395
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12395

tcattttaca gacagcaaan aagaatgttt atatggataa ccactcgagt acttccctcc 60
 cgtcagcgtg actcaaatgt cagtatgaca gatcttgtga gcgcggaaga tgacataaat 120
 ctccgcgtgt caacgggctt gtcggccgcg attgacgaag ggcgcagaag acgacgttag 180
 tctctgcgtg ctatcaggct ttctgtctta ccgacagcaa aaaagttttg aaagtgcgga 240
 caaccacttg ggtatctccg catgtcacgt gactccagt ccagcatgac agaacttgtg 300
 aggggtggccg acaaaagtga ggctcttgct cctacgtatc ctccaatgag gaactcagac 360
 ttacgtagtt cttgataact tgtgagactt gaaaaagtc 399

<210> 12396
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12396

tgcattccgt gcttgttgtc aggggtgatgt ttccttctca acagtcttgc tctatcttg 60
 atttccatt tgcattgtac caaagtcacc gcttggtag gatgagaaga aacttccatg 120
 tggagtaaca tggaaggagg caccggaatc gacaatcaa gagctatcat cacaagcaat 180
 gtttaggata ttacctcac caacgagata taacaaatct tcttttgaaa ctacggcagt 240
 agtattcttc ttttcttct tctttgttg gctgacttg tctggcttaa cgttaccgat 300
 tgtttgatct ctctgaagg attgacattc tattttctg tggcccatcc ttccacagta 360
 gtagcatgta attnttttagc gtgatttga tctacctga gaatgatgcg aatctcggt 420
 cttaatacgt ccacgagtct cattcata 448

<210> 12397
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 12397

atttgcaaaa gccaaatgag atagctgtat acctgcacag ttgagatgaa attttaaate 60
 ggcacatccc ttgaggctgc tcatatctct ggaaaagtac tccaaacaga gtcacaaacag 120
 attaggggag agaggatccc cttgtctaag acccecgctgt cctttgaaac gaccatttat 180
 ggatccattg actgccacac taaaggaagt agaagaaaca cattccatga tccaagtact 240
 gaaatgatct ggaagccaa tggacttaaa catccattcc aaaaattccc 290

<210> 12398
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 12398

cacctgcagc tgcagcttct ctccccacat tttctgagt ctcgagtag caaaggagat 60
 gcacttgcca caattactaa cgactccaaa ttatcatgat tctcaatag ttcagttatc 120
 aattctacaa tccgctgatt gattctccac aacttctgac ctagattggc atctttggca 180
 atccatggct gcaattcctt ctgggcctga caagcaacaa gtcaggggat gaaaaatgaa 240
 atattgtaaa aaaatctaca aaatggaagc tgatttggaa cacaggtag atgagctctt 300
 ctgcataaga tattttaaact ttctatacat taaaagctat gtctcatgtg ggaattaaat 360
 atg 363

<210> 12399
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12399

agcttgaaag atttctcaag atccgggtgt tgcttaggga ctggatgtag gcacgggttg 60
 ttgccgaacc agtataaaat tcttgtgttt ttcttcttct tccatacact ttttaatttc 120
 cgttgtgtac ttacttttta tgctttactt ttgtttaagt tacataactt agtagtaaag 180

cctaattgaa tctagtaaca ttaagaagga tcagttttaa ttagtcaagg ttacttaata 240
 attaattcaa cccccctatt ctcaattact ccaaggccac ttgatccaac acattgtacc 300
 ctgagcaact gccagttagt tcttcttctt tttcttttct tttctttaaga gttgaat 357

<210> 12400
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 12400

agctttgaa gctctattca atttagttga caagaacatc ttcagactga tcaacacttg 60
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
 aaagatgtcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg ataacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagta 358

<210> 12401
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12401

agctttgaa gctctattca atttagngt ttataatc ttcagactga tcaacacatg 60
 tacagtggcc aaggatgctt gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tattggccac aaaatttgaa aatctgaaga tgaaggagga 180
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
 tgaa 364

<210> 12402
 <211> 382
 <212> DNA

<213> Glycine max

<400> 12402

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agaccctaat cgactgagct gcagctttga gcacttggtt tgtaatttac aacgagatga 60
tgcgctccat gagagggttg atcaaatgga gaatagagat cataatgaag aagaaaggag 120
gagaagaggg aatgatggta ttcctagaca aaaccgaatt gatggtatta aactcaacat 180
tcttccattt aaaggaaaga atgatccgga ggcttacttg gagtgggaga tgaaaataga 240
gcatgttttc tcatgcaaca actatgagga ggaccaaag gtgaagcttg ccgccacgga 300
gttttccgac tatgctcttg tgtggtggaa caagctacaa aaggagagag catgaaatga 360
agaggcattg gttgatacat gg 382
```

<210> 12403

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12403

```
agctttgagt gcttgcattt ttaatcacga aaaaattact tttctcagat aaaagaagat 60
taaaaaaagt ggtttgaata aaaagggttg tttctgtag ttaaataga aaacctgttg 120
atgcaaaaaca aaagaagtgg ccaacaaaga agaagaacat ggctaattaa taaactaaac 180
tcacaaaaca cataatataa tatccaaaat aatattggac agttctacaa atttaccttg 240
agactcatct tgaccatctt tactttgttt tgggtgccact ccaaaatcag ctagaagagc 300
ctcaagctct gcaagntect ttttcttctt ttcttttta gagagctgcc tttctgtc 358
```

<210> 12404

<211> 356

<212> DNA

<213> Glycine max

<400> 12404

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agcttgacaa aattctgaga tttcttgcca gagatttttc ccttctgttt tctgcaaaac 60
atgaagtggg gtcaatactt gtaatatcac aatgctctat ttgtaaatac cacaccctcc 120
ttttatgttt catatttcaa agaaaaggaa tgtaataaat gttaggaagt cccacatgtc 180
tagttcttgg gatacaactt atatctctt tggataactt cacttagtgt caattgggtt 240
```

taagttgaga tctaacatag tatcaaagtc tatagcccat cttagttctt gectattcca 300
gaggcaggcc tctgtgtagg ggtgtagga agtcccactc agtgtcattg gtttta 356

<210> 12405
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12405

tgagttnnnt ttaaaatcat atttagctaa atggtgatac catgaacttt aaaaaaacc 60
tattaagtct gatgaaccga cctgttttagc aataatattt tatattaaag atattattat 120
taatatgata tatagtataa ttattatatt taaattataa aattatttta gtagtttgac 180
aattttaatt agtgtttgaa atatcttaat tcgtataaat ataaatgtgt agcaaaaata 240
tacattcttt tcttttggtg agacttaaaa gacttttagta atatgtcacc cacaatgttt 300
tcccatattt tattgtttta aattgtctta ttatttttaa taaaaatatt tggttntgct 360
taaaagataa tactttntta cactttttta tatgaaacaa accttttaaat ggattaattg 420
gcctaaccaa cttatacaaa agctaagtc 449

<210> 12406
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12406

tctcgatata ttatgcacat gaatcggacc tcnattgaca agnnanggcc annngaattn 60
ttcgagagct tccgtgctc aatttcgagc gtctcgatat attatactcc tgaatcggac 120
ctccgagtga aaagttaaga ccatttgaat ttctcgagag cttccgttgt tcaattttga 180
gcgtctcgat atattatgcg cctgagtcgg acctccgagt ggcaagttat gaacatttga 240
atctctcgag agcttccgtt gcttcaattc gaccgtttcg atatattata ctctgaatc 300
ggacctccga gtgaaaagtt atgaccattt gaatttctcg ag 342

<210> 12407
<211> 365

<212> DNA
<213> Glycine max

<400> 12407

agcttctctca attcttgtgg atttatgctc tttagacggc tgcgtatata ttaaatcgag 60
ttccaaccaa ggctgtctca aggacacctt ttgagttatt caagggttgg aaaccaagtt 120
tgtgacatat acgcgtttgg ggatgcccgct ctgaagtaag aatttataat ccacaagaga 180
agaaactaga ccctaagact attactgggt atttcattgg atatgctgaa aggtctaaag 240
ggatataggtt ctattgtcca tcccacaaca ctaggattat ggaatcaagg aatacaaagt 300
ttcttgaaaa tgacttgatt agtgggagtg atcaatttca gaacatttct tctgaaaggg 360
atcac 365

<210> 12408
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12408

agcttgctta ctgtcttcgt ttctcaagaa cttctcggnt ttcttgagta gcttatagaa 60
aggcttcggt ttttctacga gtttcgaaag gaacctggac aaaaacgccc atctaccatt 120
caacttttga acttctctga tgttggttagg actctgcatt tccaatattg ccgtacactt 180
gtttgggttg gcttcgatcc cttgggtgggt gatcatgaac cccaagaatt tttcactgcc 240
gaccccaaag gtgcattttc aggggttgagg catatgtcat atttacgggt ttctccaaat 300
acttccttca agtctgtctac atgttggggc acactataag acttgataac catgtcgc 357

<210> 12409
<211> 347
<212> DNA
<213> Glycine max

<400> 12409

agcttggatt tcctttgctc ctgaaacctc tcctttctca tgtgaaccca aaaccaatct 60
ttgggttgga aaacaacctt tttgcgcccc ttgtttgcat gtttagcata gctctcatte 120
ctcttttcaa tttgggcctt gactctttca tggagctttt tcacatagtc cactttggct 180

tgctcttctt tatgctttaa aactgaaata ttaggctttg gcaacaaatc aagaggagtt 240
 agtggattga aaccataaac aacctcaaaa ggagaacaag tagtggtgct atgcacagtc 300
 ctattataag caaattcaat gtgaggtgaag caaacttccc aattttt 347

<210> 12410
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12410

nganattgaa caagggaagc tctcgacaaa ctctattgat cataacttat cacacggagg 60
 ttcgattcag gcacataata tctcgagacg ttggaaattg aagaacgaat gctctccaga 120
 aattcaaattg gtcataactt gtcacacgga ggtccggttc aggcgcataa tatatcaaga 180
 tgctcgaaat tgaacaacga atcctctcga gaaattcaaa tggtcataac ttgtcaaaca 240
 gatgtccgat tcaggcgcgt aatatatcca gacgctcgaa gttgaatata ggaagctctt 300
 gagaaattca aatggtcatt acttgtcaca cggaagtcgg attctggcgc atcacatata 360
 gagacactct 370

<210> 12411
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12411

tatgctgcan acatctacaa tagacctctt caacctcatc agcaaaatca accacaacaa 60
 aacaattatg acctctctag caacaagtag aaccccggtt cgaggaatca tcccaacctt 120
 agatggctga atccttcaca acaacagcaa caacaacaac aaccttattt tcaaaatgct 180
 gctggcccaa gcagaccata cgttctctca ccaatccaac aacaacaaaa acagcaacaa 240
 ccccataaac aacaaacagt tgaggctcct cgcgaacctt tccttgaaga acttgtgagg 300
 caaatgacta tgcaaaacat gcaatttcaa caagagacca gagcctccat ttagagctta 360
 actaatcaga tgggacaatt ggctacacag ttaaataaac aacagtccca gaattctgac 420
 agattatctt ctcaatctgt ccagaatccc aaaatgt 457

<210> 12412
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 12412

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agcttgaaga caaactggat gtattgggta acttggtaac ccaactggcc ttgaatcaga 60
aatctgtacc tgcgcaagg gtttatgggt tgtgctctc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctggagcaa ttgagtagcc tgaagcttat gctgcaaaca 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
tctccagcaa cagatacaac cctggatgga ggaatcacc taatcttaga tgggtctagcc 300
ctcaacaaca acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaa 354
```

<210> 12413
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12413

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catggacgaa ttgcagtggc cataatgac tcacagtaag atcttgatga gcctcaaggc 60
ataaagaact tagtgaatat catatacaag cagatcaaag tagaagcctt cacagtttat 120
gattactatc acctctatgc taaattcttg gatactgttt tgccttacat tagggaaggg 180
aagataacat atgttgaaga cataactgag ggtcttgaga acgggtccaat ngcactagaa 240
gcaatgttcc aaggctgtag tgctggtaaa caagtcatta tacttgctcg tgaataaatt 300
agtacaacct tactggttga tctttcanna tcattttggt tgtgtntgca actctcactt 360
tgagaggttg ttgagtaata aacaacgtgg atcatgttga ccatctttaa t 411
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<210> 12414
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12414

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aatatatcga gacgctagaa attgaataat ggaaactctc cagaaattca aatggtcata 60
```

acatttcact cggaggtccg attcatgcgc ataatatatc gagacgctcg aaattgaaca 120
acggaagctc tcgagaaatt caaactgtca taacttttca ctcgaggagac cgaatcacgc 180
gcataatata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttcaaattggt 240
cataactttt cacacggagg tccgattcag gcgccatata tatcgagaca ctcgaaantg 300
aacaacggaa gctctcgaga gattcaaatg gtcataactt ttcaactcgga ggtccgaatc 360
aggcgcataa tatatcgaga cgctcgaaat tgaacaacgg aagctctcga gaaattc 417

<210> 12415
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12415

attctatcaa tagacctcca atctttaatg gagagggtta ccacaactgg aaaacccgaa 60
tgcaaatttt tattgaggca atagatctaa atatctggga agccatagaa atagggcctt 120
atataccac cacagtagaa agagtttcaa tagatggtag ttcataaagt gaaagcataa 180
ccatagaaaa atctagagat agatgggtctg aagaggatag aaaatgagta caacacaacc 240
tanaagccaa aaacataata acatctgccc taggaatgga tgagtatttc agagtttcaa 300
attgtaagag tgctaaggaa atgtgggaca ctcttcgatt aacacatgaa ggaactacag 360
atgttaaaag atctanngat aatgcactaa ctcatgagta tgaattattt tagaatgaat 420
gcaaattgaa tattcagagt atgcaaaaga gatttacaca ta 462

<210> 12416
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12416

attactgaca tgctagccaa gccaccctg aaccaaattg tggtgcagca gcagccttga 60
actcatcaag gaattntaca aatgaaccac agtctcttct aatcagttct agaagctccc 120
cggatggctt tccacctcca cactggttca tgcactccca gaagaagtca tggttccata 180
cctgcactat gcattacaag attgattgat taattaagta ctaagccatg gtgttgaaac 240

atgaattaga gattctgggtt gcaagcatgc atgcctgtgc tgcattgttg aaagctggaa 300
gaagtcaccc ttattgtatg atgtgacaat aatctcttct agtgacatac catcaagctc 360
t 361

<210> 12417
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12417

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tttaccgctg cgccatgact tgctttgggg ggcttttaac catcttgata aaattagttc 120
ttacttttta cttataaatt tttatcacag gaagaatgat tcatagctta aataaaaatg 180
agcatgctct cgatatggct gctcctgttc atgagagatt gggatgatg gatggctcta 240
ctgacgacaa ttctcattg aagaagagaa ccaatgttct cctccatcgt gatcacactg 300
gagacttgga atgtcttgat ggttgaatat 330

<210> 12418
<211> 381
<212> DNA
<213> Glycine max

<400> 12418

gcttgattct cattggagag gtaatgattc tctagatgat gcgctccatg agaggttgga 60
tcaaattggag aatagagatc ataatgaaga agaaaggagg agaagaggga atgatggtgt 120
tcttagacaa aaccgaattg atggtattaa actcaacatt cctccattta aaggaaagaa 180
tgatccggag gcctacttgg agagggagat gaaaatagag catgttttct catgcaacaa 240
ctatgaggag gacaaaaagg tgaagcttgc cgccacggaa gtttccgact atgctcttgt 300
gtgggtggaac aagctacaaa aggagagagc aagaaatgaa gagccaatgg ttgatacatg 360
gacggagatg aaaaaatcat g 381

<210> 12419
<211> 226
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12419

ttttgagcat ctcgatatat tatgcacctg aatcggggcat ctgagtgaaa aggtatgcca 60
tatgagctaa ccgagagcct cggtgntcta tttcgagcgt ctccacatat tattggcctg 120
aatcggacat ccgagtcata agttatgggc agttagacta tccatgtgct tccgtgttta 180
attntgagca tctgcatata tgatgcacct gaatcggaca tctgag 226

<210> 12420
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12420

aattctattt atagacctcc aatctttaat gtttaggggt accactactg gaaaaccgca 60
atgcaaattt ttattgaggc aatagatcta aatatttggg aagccataga aatagggcct 120
tatataccca ccacagtaga aagagtttca atagatggta gttcatcaag tgaaagcata 180
accatagaaa aacctataga tagatgggtct gaagaggata aaaaacgagt acaatacaac 240
ttanaagcca aaaacataat aacatctgcc ctaggaatgg atgaatatTT cagggtttca 300
acatgtaaga gtgctaagga natgtgggac actcttcgat aacacatgaa ggaactacag 360
atgttaaaaag atctatgata aatgcactaa ctcatgagta tgaaaatatt agaatgaatg 420
caaatg 426

<210> 12421
<211> 506
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12421

atactcacga gtataaatca atcttgtaga aatcataact aaattattat nntagtgctt 60
gaaggcactt caacattnta aaagaagata taactctaata cacacacaca cacacaaaaa 120
ccaattcaat ttatggaaga gaactaatc tatataattc aaaaatgttg tatataaaaag 180
taaaaaaatt ataataaaaac tcagcttata taaaatgtca ttttttatta ttaattatca 240

ctaaacacca aacattttcag ctcaactatc tcaattgatt catacaacat aatcataaca 300
 canatcatac attatcatca acaacatact ttcataacca ataatacatca taaactatca 360
 aatatcatga gtcgcataca atcataaaact atcacaaaac ctcatcatac tcaatcacca 420
 acaaccatca tcataactga agtacatcat agaccaagac aacatcaaac atcaaccact 480
 tattctanct catgngagtc aacaca 506

<210> 12422
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12422

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 gatgtccgat tatggcgaat cacatgtcga gacgctcaaa attgaacaac ggaagctctt 120
 gagaaattct aatggtcata aatttttaact cggatgttcg attcaggcgc atcacatata 180
 gcggcgctcg aacaggaaca acggaagctc tcgagatatt caaatgggtca tgaactttca 240
 gactgaggtc cgattctgga ttataatata tcaagacgct cgaaattaaa catcggaagc 300
 tctcgagaaa ttcaattggt catcactctt cacacggatg tccgattcgg gcgcataata 360
 tgttgacacg ctcgatactg aacaacggaa gctctcgaga aattcanatg gtcataactt 420
 ttcacacgga tgtccaattc atgcgcatca catattgaga cgcacgaaa tgaacaacg 479

<210> 12423
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12423

tcccgagagc tttttttgnt cattntcgag cgtttctata tgtgatgcgc cttaatctaa 60
 catccgtgcg aagagttatg accatttgaa tttctcaaga gcttccgttg ttcaatattg 120
 agcgtctcga tatgtgattc gcctgaatcg tacattcgtg tgaaaagtta tgaccatttg 180
 aattttctcaa gagcttccgt tgggtcaattt cgagcctctc gatataattat gcgcccgaat 240
 cggacatccg tgtgaaaagt tatgaccatt tggatttcgc gagagtttac gatgtttaat 300

ttcgagcgta tcgatatatt attcgccctga atcagacatc cgtgtgatag ttatgaccat 360
 ttgaattttc aagagcttcc tgtgttcata ttcgaaacttc tctacatatt at 412

<210> 12424
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12424

cttcaatata tttattctag atgactnngn cactttttgt gtctctaate cctccattnc 60
 aaaacttccct atatttaagg tttttacaca gattaaaaaa ctatttatat atacaaactt 120
 aaactaaatt attctaattt ataaatcata aagataaact aatagtcac aatacaaat 180
 aattatccaa taattgtcca ataactcana ctcaataata ataatcataa acataaactc 240
 aagactactc aatgtccaat aattatccat aaactcacat tagcatcaaa gccaatgtcc 300
 aactaattg tccacaaact catattcaag catcaaactc aatgtccaca ctaatngtcc 360
 acaaagtga atttaagatt ataaatatat atggtagatt tacaatggg aacgcataat 420
 tccaaaaacc ccatattc 438

<210> 12425
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12425

atcttggggc tttttccac aactctngta aatgggagag aaatgttcat ctaaagcata 60
 caaatctcta atgttatcaa atcctaaaat ntgagtcct agtgagcaaa acaatgtgtg 120
 tctcttagag agggcatcag ctaccacatt tgtttttccc ttnttgatt tgataacata 180
 tggaattgc tctangtact ctacnnccat ttgcatgctt ttgtttaact tgctttgcac 240
 tctaataaac ttaagtatt gatgatcact atgaatgaca nttccttgg aaacaaggta 300
 atgttcccaa gttcttagtg ctcttatt 328

<210> 12426
 <211> 405
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12426

tgtagtctt attcgtcagt tctttgacct tccaccacca tcttcataga tttagattat 60
tattatattn tggttttttaa gccttgcatt tggctatgtn tttatgacat tccaacactt 120
agtatttctt ttaatatattg cttagtatga ttgaacatga tgataatatt tacttgctct 180
tggttggtta tggctatggg tggttaaactt aattattntg atgatatata tgtctagtgg 240
tatgtactta catttggtat tgtgctntat gtatgtttta gaattatnta tgtatgaatt 300
attttacaca cttttggcct tttgatgttg ccaaaggggg agagaaaaat gggatattta 360
gaaatcaaga tattatattt tcaaagtctt aaattaagca taaat 405

<210> 12427

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12427

cgtaccaagc ttcaattgga gtcttgtctt ttacagactt agttggacat ctggtgagta 60
tgtaaacaac agtgtagact gcttcagccc aaaatatgtt aggtagtccc ttttccttga 120
gcatcgatct agccatctcc ataactgtgc gattctttct ctgggacact ccattttggt 180
gaggagaata tgcgactgta agttgtctct caatgccttc atcctcacia aatctttcaa 240
actcgcgaga ggtgtactct ctgctgcgat cacttcttag tgactttatc cgtcttccac 300
tttgattttc agcaaggggc ttgaactcta tgaatactcc aaagacttct gatgattctn 360
ttagaaaata taccatg 378

<210> 12428

<211> 322

<212> DNA

<213> Glycine max

<400> 12428

gcgtctcggt atattatacg actctattag acatccgagt aaaatgtgat tgtcgtttga 60
gttggctcag agcttcaaca ttcaatttcg agcatctcga tatgttacgg gactcaatca 120

gacatccgag taaaaagtta ttgtcttatg agttggctca gagcttcaac attcaatttc 180
gagcgtctcg atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt 240
gaattggctg agagcttcaa catgtcaatt cgagcgtctc gatatgttac gggactcaat 300
cagacatccg agtaaaaaga ta 322

<210> 12429
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12429

tgtctgcatg aatccttggt tatatcgaga cgctcgatat tgaatgttga agctctgagc 60
aaattcaaac gacaataacg ttttactcgg atgtctgatt gagtcccgta atatatcgag 120
acgctcgaaa ttgattgttg aagctctgag aaaattcaaa cgactataac tttttactcg 180
gatgtctaata tgagtgcgt aatataacga gacactcgaa gatgaatggt gaatctctaa 240
gcaaattcaa acgacaataa ctttttactc ggatgtctaa atgagtctcg taatataacg 300
agacactcga agatgaatgt tgaagctctg agcagattca aacgacnact acattttact 360
cggatgtctg attgagtccc gtaatatatc gacacgctc 399

<210> 12430
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12430

cacagcaaga ctaacttttc tctctctgct tcgtggacgt tagataatgg gataccaatc 60
catttgctaa caatctctgt gatatcaagg tcagtgcct cttctccaaa taaagaatgt 120
ccggactttc tgaagtcggt taggctcttt tcagcttctt ctaattggcg ctgaaggac 180
atcaaagttc cataacttaag ctccgcagca cggttcatgt cataatcacg ctcagcagct 240
ttcatctcta agttgactct atcaatctat acacgtgtnt ataacaatta agtcgc 296

<210> 12431
<211> 437
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12431

ctggaactac ttcacattgt ctngatggng cctatgcaag ttgaaagcct tggaggaaag 60
aggatatgcct atgttgttgt ggatgatttc tccagattta cctgggtcaa ctntatcaga 120
gagaaatcag acacctttga agtattcaag gagttgagtc taagacttca aagagaaaaa 180
gactgtgtca tcaagagaat cangagtgaac catggcagag agtttgaaaa cagcaagttt 240
actgaattct gcacatccga aggcattcact catgagttct ctgcaaccat tacaccacaa 300
caaaatggca tagttgaaag gaaaaacaag actttgcaag aagctgctan ggatcatgctt 360
catgccaaag aacttcctta taatctctgg gctgaagcca tgaacacagc atgctacatc 420
cacaacagag tcacact 437

<210> 12432

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12432

atgcaagctt aatatatcta tatatggttt anaacaagtt ttccgtcagt ggtaccttaa 60
gtttcatggg ataatttctt catnnggttt tgatgaanat cccatggatc aatgcatata 120
ccacaaggtt agtggggagta aaatatgttt tcttgtttta tatgtagatg atattntact 180
tgtagccaac gatcgggggtt tgctacatga ggtgaaacaa tttctctcta agaattntga 240
catgaaggat atgggtgatg catcttatgt catcggcatt aagattcata gagatagatc 300
tcgaggtatt ttgggtctat cacagganac ctatattaac aaaattctag agagatttcg 360
gatgaaagat tggtcaccaa gt 382

<210> 12433

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12433

acatagacag tatcatctgc atattgcaga aagtnaattg gcaccttctg ctnncttct 60

aaataactgc tgtacagacc ttnggataga gctgtectca tcatgccagt caagcettca 120
 gccacaatat tgaaaaggaa aggggctaag ggggtcccctt gcctcaaacc tctagtgggg 180
 gaaaattcat ttgaggggct gccatttatg agaatggata tagaagctga ttgattgcaa 240
 gcattgatcc atttcctcca tataggacag aaccccatc tgaccatcat ataatccaga 300
 aagttccatg agacagagtc ataagccttt gcaaagtcca ctttaaacac cagagctggc 360
 ttcttacttc ttttagctta ctctattgct tcattgagaa tcaaagatcc atgaaggatg 420
 tgtctatcct ttatgaaagc tgtctgtctc tcatcaatga gtccaggcaa tatatttctt 480
 aacctattgg ccaggaatnt aacaatgatc ttata 515

<210> 12434
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12434

gttgtcatca tcaaatagtg gagaatgtga atgtatgtat acatgattnt gatgatgtca 60
 aagaagaatc taacaaggct gcttcaaagt ataagcattt gcttcaagaa taattcaaga 120
 ttgcttcaac aaacaaagcc ttgtttcaag attcactaaa gaccaagcct tgcottanaa 180
 caaagtgcct tcaagacatg caaggctctg gtaatcgatt accaggaagt gtaatcgatt 240
 accagaagac aggggttgaga aatagctggt gaaaaatggt ttgaatttga attttcaaca 300
 tgtaatcgat taccatatgt ctgtaatcga ttaccagcaa cgaaactttg gaaattcaaa 360
 ttcacaagtc ataacccttc acattataac tgtgtagatc gatacacaaa cattgtaatc 420
 gattaccagt ggaaagtctc agaagatctg caacagcaca tc 462

<210> 12435
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12435

caagactgta tcatgtgtcc tactaattta taaattacaa cgcgacttgt atatcagagg 60
 catgactgga atcagtacat gatatttaat attaaataga gtttaataca caatctcggt 120

ctataattac ttaaatacgat taatcaccca agttaattca catgcatttt taataacact 180
 aaaaactagg tacatagaat accaatatth ttgttcattt gaatgtgtcc atcctgtgag 240
 atgactattg gaggaatct taagcaattt ctctgtcaag atattgatgt gtgattatta 300
 atttattggc aagtgtatta attcgtctaa atagtattnt aaaataataa gatcgagtat 360
 taagtccaca aaaactntga ctgtactcan agtttgtata cgtctaattn taaacaatta 420
 atgaattaaa ttcaatattg gtogaataat aatacagaat ggtaaattca acatacataa 480
 agataattaa gtagagcata ttaaagag 508

<210> 12436
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12436

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 tatattcacc aggaaaacat cgtagtggaa ggaaattgta gtgctgtgat tcaaaagatc 120
 cttccaccaa agcataaaga ccttgcgagt gtaactatth cttgttcaat tggagaagtc 180
 attatgggaa aggtctttat tgacctgnga gccaacatta atttaatgcc actctccatg 240
 tgcagaatgt tgggagagtt ggagatcatg ccactaaaa tgactttaca actggctgac 300
 cgctccatta ccagaccata tggagtaatt aaagatgtgc tggtaaaagt gaaacattth 360
 atcttccca cagactntgt ggtaatggat atctgtgaag atattgacat tcttgaata 420
 ttgggaaagc cattcatgtt aactgcaagt ngcatagntg atatgggtag aaagaagctg 480
 gaaatggg 488

<210> 12437
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12437

gacattcgac ttaaattgta tgaccatttg aatttctcaa gagcttccgt tgttcaattc 60
 tgagcgtctc gttatgtgat ttgctgaat cggacatccg tgtgacaagt tatgaccatt 120

tgtattttctc aagagcttcc gatgttcaat ttcgagcctc tcgacatatt atgcgcccga 180
 atcggacatc cgtgtgaaaa gttatgacca tttgaatntc tcaagagctt ccgatgttca 240
 atttcaagcc tctcgatata ttatgcgccc gaatcggaca tccgtgtgaa acagtatga 299

<210> 12438
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12438

agcttataat atattgatac gctcganatt aaatgtctga nactctcggg aaattcanat 60
 agccataaat ttccacacgg atgtccgatt cgggcgtata atatgtcgag aggctcgaaa 120
 ttgaacaatg gaagctcttg agaaatttaa atgggcataa cttttcacac ggatgtccga 180
 ttcaggctta taatatatcg atacgctcga aattaaacat cggaaaactct cgagagatcc 240
 aaatggatcat aactcttcac acggatgtcc gattcagagcg cataatatgt cgagaggctc 300
 gaaattgaac aacggaaaact ctcgagaaaa tcanatggtc ataacttttc acacagatgt 360
 ccgattcagg cttataatat atcgatacgc tcgaaataaa catcggaact ctcgagaatt 420
 caatgtcata ctttcacacg at 442

<210> 12439
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 12439

gaagtagacc cggagatgga caagacaatc cgcagtattg tgagtagcat tctgaaagat 60
 gcttctgtgc ctgatgtga gaaagatgtt ccaacatctt ccacccaag tgggtccgtg 120
 cctgatgtg agaaagatgt tccaacatcc tccgtccaa atgctgaagc cctcccttca 180
 ccagtgaaag aggaatcaac agaagaagag gatcaagcct cagaggagac tccctgcacca 240
 cgggcaccag aaactgctcc aggtgacctc attgacctgg aagaagtcca atctgatg 298

<210> 12440
 <211> 495
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12440

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cgtccaatcc tctaataagga tcattctccat aaatataatc actttcatca ccattctccat 60
catcatcaat gccttctctca gattgtgcat catcatcagg ttccacgaaa attaaattat 120
ctagatcaag agcttaaaat agatatcaaa gatgttatat cagaaatagt taaaacttaa 180
aataatacac aagcacattt taaatttgag aaagttcata aattatacct tctcttggtg 240
ttattaaaat tgcattntat cttctctttt gcattttcca tctcatatat gaaaagtatt 300
cagtaacaag attgatccaa ctccaacatt gtagggtcag ttgggtgtgt ttgtaataga 360
ctaataaaa gtatgaacta tgaactatga gtttatcgtc atttggttgg caaatgggtgc 420
attntaaata tatntactta ttattcatat nnttttttac gaagtagact cttaagagtc 480
tacgagtcga ctggt 495
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<210> 12441

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12441

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aagagctaatt tatctgaaaa cttatatacc tttattttaa ctatcttata aatgagncaa 60
aataacttat aagctgacta attaaaaaga cttaattata agttattgaa gtaacttact 120
aaacacatgt gtcgaattag tttatattaa gaaatatgat attctgttga tcattctgaa 180
gatcatttta agaattattat ttataagatn gaattttcaa ataacgcttc tttatggcaa 240
taatgaagaa ggggtgttaga tgaattcgag tataatatat ctttcccaca aacgtgtgct 300
aagatacata gttcaaacca taatataatg aagaatcaga atgactaata tataaattat 360
agccaactac catcagataa cattttatctt gattagacaa tcttactata ccacgaagt 420
ggtattcat 429
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<210> 12442

<211> 402

<212> DNA

<213> Glycine max

<400> 12442

tgcatgacca agtttcttat gccataatca atgattttct ttgatagaca acaaatgcga 60

taccttttga tctgatattt caccacaactt gatcttataa cagttacctt tccttatagc 120

agaaaatagt agagactcat ccttggttctg gactacacac tcattctact taaaggaaac 180

atcatatcca ctgtcacata attggctaatt gcttagtaga ttgtgtttta gaccttcaac 240

aaataatgca ttatcaatag agggataagg atgtgtacct atcttaccga ctcttattat 300

tttccctttt ttattccctt tgaaagtgc aattccacca tgatagcgag caggcattag 360

aacatacacc tttctcatgt catgtgccat gagcaaccac tc 402

<210> 12443

<211> 332

<212> DNA

<213> Glycine max

<400> 12443

ttttaggaca tgctggattt tataggcgat tcataaaata cttttcaaaa attgccaaac 60

cactcagtaa tttactgaac aaggatgttg tgtttgcatt taatgaagac tgcttggaag 120

cttttaattgt tcttttagacc aggctagtat ctaccctgt gattatagca ccacattggg 180

gacaagagtt tgaattgatt tgtgatgcta gtgactatgt cgtatgtgct atacttaggc 240

agagaaaagg cagagttttc cgtgccatct attatgccag cgaagtcttg aatgatgcac 300

aatcaatta tgctaccatc tagaaagaaa tg 332

<210> 12444

<211> 398

<212> DNA

<213> Glycine max

<400> 12444

tgcccttgccc cttgatatat ttgagggact catggtcgct atgaatgaaa aattccttgg 60

gataaaggta gtgttgccat gttttcaaag cccgtactaa gtcatacaac tacttatcat 120

aagttgaata gttaagtgtg ggaccactta acttttcact aaaataagca attggatggc 180

ctgcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240

atttttgaaa atttggaac gcaagtatgg aggcattagt tagcttttgc ttaagcatat 300

tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaat 398

<210> 12445
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 12445
 agcttcaacc aagatgggat ggtccatttc aagtacttga aaggataaat gacaatgcgc 60
 acaagattga attgcccgat gagtataatg tgagtactac atttaatgtg tctgacttaa 120
 cgctttttga tgtagatgga gaagtcgatt tgaggacaaa tccttttgaa gagggagaga 180
 gtgatgagga caaggcaagg aataagggca aggaatcttt ataagaactt ggaggaccta 240
 tggcaagggc tagaacaaag aaggccaagg aagctcttca acaagtatta accatgctat 300
 ttgaatttag acccatgtta caagtggaga agcttcggat tgttaattgc acca 354

<210> 12446
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12446
 tgccatgaat tgtttcatgt gtactattat agaggctggc ataatcctgt cataaaacac 60
 aaccataaac taaaataagc atatgtgac agtgtcaaaa taaaatgcaa ccatttacia 120
 aaccaatcaa gaaaataaga atagattatt acagctaacc aatcaacaag cctttcaggt 180
 agccatgctt gagattgctt gtccacataa aatatttcaa ttaactccca cgcagctttc 240
 aaagatgtag gctcttcacc tctctatatt atgtgtaatg tgttaaaaag caagtgatta 300
 acttctcggt atcataatc ccacaaagca gatctcagct cagctaaaca cgggtaaaaca 360
 atttagaacc taaaacagta ccttagcaat tacat 395

<210> 12447
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 12447

tcaacattca acttcgagcg tctcgttata ttatcgact caattagaca tccgagtaaa 60
aagttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc gtctcaatat 120
atgacgggac tcaatcagac atccgagtaa aaagatattg tcgtatgaat tggctcagag 180
cttctacatt caattttgag cgtctcgata tatgacggga ctcaatcagg catccgtgta 240
aaaagatatt gtcgtttgaa ttggctgaga gcttcaacat tcaatgtcga gcgtctcgat 300
atgttacggg actcaatcac acattcgagt taaaagttat tgcgttgaa ttggctcaga 360
ctttaacatt c 371

<210> 12448
<211> 397
<212> DNA
<213> Glycine max

<400> 12448

ttcaacatca gggttggggc agcagggaca tgaaggatc cattctattc caattctctc 60
cttttgtctt tttattagta ttttttttaa attgaactaa cattctatgc tcttaagttt 120
ggcttctttt catacttgta tataaatgta aggtgtccct ttcatacccc cttttgtggt 180
gcttgagcat gcttgtagt tttttgtttt cttttctct ttttgataat ttgattggac 240
atgcttgtagt gttttttgtt ttcttttct ctttttgata atttgattga tgtgtgagca 300
atgatgggta ggaggggaga agaagtgtct gaattctgag ctatggcatg catgcacggg 360
ccccttggtg tccctaccaa ctgcagggac tcatgtg 397

<210> 12449
<211> 259
<212> DNA
<213> Glycine max

<400> 12449

agcttttggg aggatcaata agtgccttat gaatcctccc gtgcttatgc caccagtacc 60
tggaaggcct ctcatattgt acatgacaat ctgggacgag tcaatggggg gtatgctggg 120
gcaacatgac gaatccggaa agaaagagcg cgttggtttac tacctaagta agaagttcac 180
gacctgtgaa atgaattact ccttgctcga aagaacgtgt tgtgctttag tatgggcac 240
ccatgccta aggcagtac 259

<210> 12450
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12450

tgaaggcaaa ctggatgcgt tgggtcaactt ggtaaccacag ctggccttga atcagaaaatc 60
 tgtacctgtc gcaaggggttt gtggcttgtg ctctctgtct gaccaccata cagacctttg 120
 cccttccatg cagcaacctc gagcaattga gcagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaaccttg gatggaggaa tcacctaac ctccagatggc ccaacctc 300
 gcaacaacaa caacagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360
 cattctcca ccaatccaac aacagcaaca acccc 395

<210> 12451
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12451

agctttggag tnttttgtaa caattcgnet tcttcttgg tccagtcttc ttctggcttc 60
 aattcatcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120
 acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccatcct tgctttccag 180
 tattcatagt tggttccatc taggattggg ggtctgttca ctggctcctcc ttctttctcc 240
 atgttcatca gaatttatct ccctagatct cactctgtga ttctgagtgt tggtctgat 300
 accaattgaa attctgatac caggggacag atgtcgtacc ggatgtcacg acatcatgct 360
 tcagaacatg c 371

<210> 12452
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 12452

agctttcgtg aaattgaatt ggtcataacc cttcacaccg atgtccgatt caggcgcata 60

atatatcgag aagctcgaaa ttgaacaacg gaagctctcg agaaattaaa attttcataa 120
 ctttccactc ggatgtccga ttcaagcaca tcacatatgg agacgctcga aattgaagca 180
 cggaagctct tgagaaattg aaattgtcat aacttttcac tcggatgtcc gattcaggca 240
 catcatatat tgagatgtc gaaattgaac aacggaag 278

<210> 12453
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 12453
 tcagttcact acttcaagta gtgcatgata tgcttcaga ggaaaacatg ttgccaaaac 60
 attactatca ggtgaagaag atactgtgtt cgatgggtat agagtatcag aagattcatg 120
 catgtcctaa tgattggata ctatacatat atgagtttga agaaaggcac aaatgcctta 180
 ggtgtgggct atcgaggtac aaagtgaagg atgacgacaa gtgtaacagt gacgaaaact 240
 caaagaaatg gccccccggc aaaagggtgtt gtggtatctt ccgatcatgc caagggttaa 300
 gcgtatgttt tctaattggag atgactcaaa agaccttaca tggcatgcag atgggagaaa 360
 cggatgatga atgctccacc atttggctga tt 392

<210> 12454
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12454
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 ggccttgatt ttctcagggt ccacttggag ccattttcta ccaactacaa accctaagaa 120
 aactatatta tctacacaaa aagtacactt ctctatattt gcttagaggg tgtttttctt 180
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc tactgtacac 240
 taaaatatca taaaataaaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
 atacaaacca aacttgggtct tgaaagcggg tttccactca tc 402

<210> 12455
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 12455

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 cctattttta atggagaggg ttaccactac tggaaaaccc gaatgcaat ttctattaag 120
 gcaatagact taaacatttg ggaatccata taagttagac cttatgtacc caccatggtg 180
 gctagaaatg caacaataga gaaacctata gaatagtcga ctgaagatga aagaagatta 240
 gtgcagtaca atttaaaggc taaaaacatc attacttctg ccctatgaat ggatgaatat 300
 tttatggttt caaattgtat gagtgctaag gatatgtggg acactctaca aattacacat 360
 gagggaacaa ctgatgttaa acgatctatg ataa 394

<210> 12456
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 12456

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 ccctaactaa gttgactcgt aagaacgaga agtttgtctg gaatgagaag tgtgatcaaa 120
 gtttccaaga gttgaagagg cggttgacga cagctccgat gttaatttta cccgacctta 180
 agagaccatt tgaagtgtat tgcgatgcaa gtgggcaagg cctgtggtgt gtgttgatgc 240
 aagaggaag agtggtggct tatgcttcat gtcaattacg tcctcatgaa gttaactacc 300
 cgacctatga cttggaacta gcagcgggtg tctttgcctt aaagattagg aggcattatt 360
 tgtacggtac tcgttttgaa gttttcagtg atca 394

<210> 12457
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12457

taaacattca atttcgagcg tttcgttata ttactagact caatcagaca tccgagtaaa 60
 aagttattgt cgtatgaatt ggcttaaagc ttaaaccattc aactttgacc gtctcgatat 120

aatacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgagt tggctcagag 180
gttcaacatt caatttcgag cgtgccgata tattacgtca ctgaatcaga catccgagta 240
aaacgttatt gttgtttgaa ttggcctata gcttcaacat tcaatttcga gcgtgtcgat 300
atattacgag actcaatcgg acatccgagt aaaaagttat tgctgctaga attgggtcaa 360
aggttaaaca tacaatttcg agcgtttcgt tatat 395

<210> 12458
<211> 363
<212> DNA
<213> Glycine max

<400> 12458
agctttgagc caattctatc tactataact ttttactcgg atgtccgatt gagtctagta 60
atatatcgac acgctcgaaa ttgaatgttg aagctctaag cctattcaaa caacaataac 120
gttttactcg gatgtccgat tcagtgcgt aatataatcg gatgctcgaa attgaatggt 180
gaacctctga gccaactcaa acgacaataa tgttttactc ggatgtctga ttgagtcocg 240
aaatatattg agacgctcga aattgaatgt tgaagctctg agccattcaa acgacaataa 300
ctttttactt cgatgtgtga ttgagtcocg aatataatta gacgctagaa attgaatggt 360
gaa 363

<210> 12459
<211> 369
<212> DNA
<213> Glycine max

<400> 12459
tgtcatactt gttccagaaa ggagaatata tgtttttggt aatgtttgcg ccatgtcaaa 60
gtgccacaag gatactcttc aaatgttaag agccttggtc agttcgaatt tctaaaatgg 120
cgatacaaga cattttacct aacaaagtca agcatgccat aactcgcttg tgctttttct 180
tcaatgccat atgtagcaaa gtcattgac ctctcaaate gtatgagctg gaaaacaaga 240
ctgctattat cttgtgtcag atggagatgt attttctct ttcatttttt tgatcatcatg 300
gctcacttaa ttgttcattc tatgagggaa ataaatgtta tgggtcccggt tatttgtgggt 360
ggatgtacc 369

<210> 12460
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12460

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agcttagaac tctcactta caagttgctt taaggatttt gagacatttg aagggatctc 60
caggcttagg cctattctat tatgttgata atgacttgaa gatccaagtc ttctttgatt 120
cagattgggc gatatgtcca gtttagcagaa aatcaatcac tggttattgt atttttcttg 180
gaaaatcctt gatctcttgg aaagctaaga aacaaaccac aatttctagg agttctactg 240
aagttgtgta tagagttctt gcttctcttg cttgtgaatt atagtggctg aagtaccttt 300
gtgatgatct tcatcttctt attcttggtc cttttgtac tttttctgat agtgagtctg 360
caattta 367
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<210> 12461
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12461

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tggaggaaga aggagatgaa tgaagggaga tgaagagaag agcacgaaat tttgtgctta 60
aaaaagctcg gaaatctgaa gtttaatttt caaatgatca aagttgaaaa aatgcacaca 120
catagtctct atttatagcc taagtgtcac acaaaattgg agggaaattt gaatttctat 180
tcaaatttca cttgaatttg aaattgaatt tgtggagcca aattttggag acaaaatttc 240
actaattatg attagtgaat tttagatatg gttcagccca ctaatccaag atcaagtcca 300
agattctcca ctaagtgtgc ttatgtgtcg tgaggcatgt aaaacatgaa ggacatgcac 360
aaagtgtgac tatatgatgt ggcaatgg 388
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<210> 12462
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 12462

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ttgaggattt tcaaacgaca ataacttttt actcggatgt ctgattgagt cccctaatat 60
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atcgagacgc tctaaattga atgttgaagc tctcagcaaa ttcaaacgac aataactttt 120
tacttgaatg tctgattgag tcccgttaata tatcgagacg ctcgaaattg aatgttgaag 180
ctctcagcaa attcaaacga caataacttt tttactcaga tgtctgattg agtcccga 240
tatatcgaga cgatcgaaat tgaattctga agttctgagc taattcaaac gacaataact 300
ttttactcga atgtctaatt gagtacccta atatatcgag acgctctaaa ttgaatgttg 360
aagctctcag c 371

<210> 12463
<211> 275
<212> DNA
<213> Glycine max

<400> 12463
agcttcaact ttcaatttct agcgtctcga tatattacag gactcaatca gacatccgag 60
taaaaagtta tcgtcgtttg aatttgggtca gagcttcaac attcaattta cagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaattt attctcgttt caatttgctc 180
tgagggttcag aattgaattt cgagcgtcta gatatattac gggactcaat caaacgtctt 240
agtaaaaagt tattatcggt tgaattagct cagaa 275

<210> 12464
<211> 313
<212> DNA
<213> Glycine max

<400> 12464
agcttatgct gcaaacattt aatatagacc tctcaacct cagcagcaaa atcaaccaca 60
gcagaacaat tatgacctct ccagcaacag atacaacct agatggagga atcacccata 120
tctcagatgg tttagccctc aacaacaaca acaacagcct actccttctt tccaaaatgc 180
tgctggccca agcagaccat acattcctcc accaatccaa caatagcagc agccccagaa 240
acagcaaaca gttgaggctc ctccgcaacc ttcctcga gaacttgtga ggcaaatgac 300
tatacagaac atg 313

<210> 12465
<211> 387

<212> DNA
<213> Glycine max

<400> 12465

tytatcaaat tcaaacgaca ataagttttt tctcggatgt ccaatagagt cccgtaatat 60
atcgagacgc tccaaattga aattggaagc tcgtatcaaa ttcaaacgac attaaactttt 120
gacttggatg tccgattgac tcccgttaata tatcgtgacg ctccaaattg aaaacagaag 180
ctctaagaca attcaaacga caataacttt ttattcggat gtccgattga gtcccgtaat 240
atatcgagat gctccatatt gaaaacggaa gctcgtatca aaagcaaacc acaataactt 300
tttactcgga tgtccgattg agtcccataa tatatcgaga cgctcgaaat tgaaaacgga 360
tgctcgtagc aaattgaaac cgcaata 387

<210> 12466
<211> 382
<212> DNA
<213> Glycine max

<400> 12466

tcttatccaa ggcacattct tgggtggtgaa gctccttctt ccttagctta ttccctagt 60
gatgggcgct gctctctcct cttctccttt gtcttctgtt gcatctccat ggtggaaaat 120
catcattgaa agacctcatt gaagctcaaa gatccagcct ccatagaagc tccagaagca 180
agcttccatt aggaatgatg gttcttctct caatcaatca gcctaaaaat attgatgaag 240
aattgagtga agattctaag gtgattgcta tggaagagga actaagtcag ttcattaata 300
acaaggtttg aatctagttc ctctctctca gaatcagaca gtgattggaa ccaagtggat 360
gttcaaaaac aagcttaatg aa 382

<210> 12467
<211> 372
<212> DNA
<213> Glycine max

<400> 12467

tataagagca tgtagaagca aatgactttt atgttttgat gatgatcatg atgatttgat 60
gcaaatgatg caaatgcgct tttcaagttt aaattcaaga caatgattca agaatacaag 120
acacaacatc aagatgatca ctattatfff aggaagggaa ttctaattg atatagcaaa 180

aggtttggcc aagtaattta agttaaaaat gtttttcaag agatttactc tctggtaate 240
gattaccaga ggatgtaate gattaccagt ggccaaaaat ggtttacaat agctattaaa 300
aatttaaatt caaatTTtag attgtgtgat cgattacata atattggtta tgcattacca 360
gcagttaata aa 372

<210> 12468
<211> 178
<212> DNA
<213> Glycine max

<400> 12468

agcttctata gaaggttctt tcctaatttc tctaaaattg cctcaccttt caatgagctg 60
gtgaagaaga atgtggcatt tacctagggt gaaagacaag agcaagcctt tgctttgctc 120
aaagaaaatc ttactaaggg acctgttcta actcttccta gattttctaa aacttttg 178

<210> 12469
<211> 364
<212> DNA
<213> Glycine max

<400> 12469

tttacgtaaa aaccaaactg atcgctggaa tgaggattgc caagaggctt ttggaaggat 60
caagaagtgt cttatgaate cccctgtgct tatgccacca gtacctggaa ggctctcat 120
cttgtagatg acaatcttag acgagtcaat ggggtgtatg ctggggcaac atgacgaate 180
cggaaagaaa gagcgctg tttactacct aagtaagaag ttcacgacct gtgaaatgaa 240
ttactccttg ctgaaagaa cgtgttgtgc ttagtatgg gcatcccatc gcctaaggca 300
gtacatgctg agccatacta cctggttgat atccaagatg gaccgggta agtacatctt 360
tgaa 364

<210> 12470
<211> 389
<212> DNA
<213> Glycine max

<400> 12470

tgctaaccce tggaagctcc taatatctct cacacttttt ggggtgggcc attcttggat 60

ggccttgatt ttctcagggt ccacttggac cccatttcta ccaactacaa aacctaagaa 120
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgttttttct 180
aaggactgaa agaacttgte tgagatgtcc taagtgaana tctaggctcc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcttc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacca aacttgggtct tgaaagcag 389

<210> 12471
<211> 194
<212> DNA
<213> Glycine max

<400> 12471

agcttgtaat cgattacact catactgtaa tcgattacca gaggagtatt tcagaaaaca 60
ttctcaacag tcacatcttt ttatctgatt cttaagtggc catcaaaggc ttatatatat 120
gtgactagag acacgaattg aacaagagtt ttgaagaaca aaaagggtctt atcctcttaa 180
caagcaaaat gttt 194

<210> 12472
<211> 230
<212> DNA
<213> Glycine max

<400> 12472

agcttgtaat tgattacaca catactgtaa tcgattacca gagaagattt tcagaaaata 60
ttctcaacag tcacatcttt tcattttggt cttaaatggc catcaaaggc ttatatatat 120
gtgacatgag acacgaattt gctaagtttt ttccagaaca aaaagggtctt atcctcttaa 180
caagcaaaat tgttttatcc tcttacaat tcttggcca aaacactgtg 230

<210> 12473
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12473

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 atgggtgtatc agaaaggcgt aatagaactt taatggacat ggtaggagt atgttaatca 120
 atttgactat acccgtatct ttgtggatgt atgctttgaa aactgccatt tatttgttga 180
 ataggattcc tagtaaggca gttccaaaga cacttttgaa tgtgtgacaa taggacactc 240
 atataaggca ctcnctgttt ggggt 265

<210> 12474
 <211> 266
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12474

agcttccatc aactgggtatc agatcttcaa tgaagaacct caagatttga ggtcaaattcc 60
 tttccaaggt ggagggaatg atgcaatcct accccacaag gtcattggat agaagactcc 120
 aagtagattg ggtcagagat ccaaggggaag gccctagggt tctcatgagc cttagggttag 180
 attttgagac ccatagctaa gtatgaagcc ttctttgttt ngaaaaanac anantgttt 240
 ttncctttttt tggggctcgt gttttg 266

<210> 12475
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 12475

tgaaggtaaa atagatgcct tgggttaacct ggtaacccaa ctggccatga atcaaaaatt 60
 tgcacctgtc gccagactct atggtttatg ctctctgtc gaccaccgca cagacctttg 120
 cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180
 caacagacct cctcaacctt agcagcaaaa tcagccacaa cagaacaatt atgacctctt 240
 caccaacagg tacaatcccg ggtggaggaa tcatcccaac catagatggg cgaatccttt 300
 acaacagcag caacaacaac cttattttca aaatgttgct ggcccaagca gaccatacgt 360
 tctccacca atccagcagc aacatcagca acagcacca 399

<210> 12476
 <211> 371

<212> DNA
 <213> Glycine max

 <400> 12476

 agcttgtcaa cagagttcat caagttaata tctctattcc tttaggatgc ttgttggtcc 60
 actaaaattc tgattatgcg tatgaaaaaa aaatttattg gaagaatcaa aacttatttt 120
 ggttatttct attccccctag atctagtctt atgatttttt attatggaca tagtttcttt 180
 tcgaaaaaaa taatatattt aatttttatg tattattaat ttagtcacct taaaaagtta 240
 atatgattta atcaattaaa tactataaat ctataatagc tttgattttt aagaaaataa 300
 tcatgcaaat taacaaattt attttatatg ataatttgta attaaatatt aataatataa 360
 aatcccattg a 371

<210> 12477
 <211> 194
 <212> DNA
 <213> Glycine max

 <400> 12477

 agcttttgag aaactcaaat ggtcattact tttcactcgg aggtccgatt caggcgcac 60
 acatgtcgag acgctcgaaa ttgaaaaatg gaagctcttg agcaattcaa atggtcataa 120
 attttcactc gtacgtccaa tacaggcgca taatatatcg agaggctcga aattgaacaa 180
 cggaagctct cgag 194

<210> 12478
 <211> 387
 <212> DNA
 <213> Glycine max

 <400> 12478

 tgccgccacg gagttttccg actattctct tgtgtggtgg aagtgattat gcaagttgaa 60
 gtggacgttt ccattgggaa atacaatgat aaggctctt gtgatgttgt tctatggag 120
 gccagtcact tacttttggg gagaccatgg caatttgata aaagagccaa tcatgacggt 180
 tacaccaaca agatctcttt cattactttt ggtgttgcac aaaaaatgta caatgtaagt 240
 cggctaggtt tttttgtgog agctcaaccg acattttggt tcggccgaaa ctggcatgtt 300
 cccatttatt ttggccagga taacattatc ccacctcggc agaaaaatat ttgctattcc 360

acttcatgca tattttattc acggaat

387

<210> 12479
<211> 203
<212> DNA
<213> Glycine max

<400> 12479

agcttgaaat tgatctatgt atgctctcga caaattcgat tggtcataac ttttcacacg 60
gatgtctaata tttgggacct aatatatcga gatgctcgaa attgaacaac ggaacctatc 120
gagaaattca aatgttcaaa acgtttcaca cggatttccg attttgggac ataatatacc 180
gagatgctcg aaattgaaca acg 203

<210> 12480
<211> 366
<212> DNA
<213> Glycine max

<400> 12480

agcttgtaat cgattacact agtcttgtaa ttgattacct aaggagattt tcagaaaatt 60
atttccaaga gtcacatctg ttcaaattgg ttttacctgg ccatcaaagg tctattttata 120
tgtgactagg aacacaaaatt tgctgagagt ttttttaaag aacaaaaagg tattattctc 180
tcaaaaagaa aaatcttctt atctctttaa aaattccatg gccaatcac ttgcaattca 240
ataaggaatt ttttgagtgc tcaattgttc aatctatctc tttcaagaga gattttcttct 300
tctcttcac tttacttctaa aaagggatta agagaccgag ggtctcttat tgtaaagaaa 360
tctgaa 366

<210> 12481
<211> 309
<212> DNA
<213> Glycine max

<400> 12481

agctagcagg gttaaagtct cactgattgtc acgtgctcat gcaacaattg ttagttgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcttg tgctttttct 120
tccatgctat atgtagcaaa gtcattgata ctatgaagtt tgatgagctg gaaaatgagg 180

ccgcaattat actgtgccag ttagagatgt attttcccc tactttcttt gacatcatga 240
 ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tgggtcttgg tatctacggg 300
 ggatgtacc 309

<210> 12482
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12482

cttgatgggtg ttgagaagaa atcacnngtt tgtcatcatc aataaggggg agaattgtgaa 60
 tgtncgtata catgattntg atgatgtcaa agaaggatct aacaaggctg cttcaaatga 120
 tnagcatttg cttcaagaat gattcaaggt tgcttcaaca aacaaagcct tgtttnaaga 180
 ttcactaaag accaagcctt gccttanaac aaagtgtctt cgagacaagc aaggctctgg 240
 taatcgatta ccaggaagtg taaacgatta ccagaagaca gggttgagaa atagctattg 300
 aaaaatgttt tngaattgaa ttttcaacac gtaatcgatt accatatgtc tgtaatcgat 360
 taccagcaac ggaactttgg aaattcaa tcaaaagtca taacccttca aanataattg 420
 tgaatcgata cacaaacatt gaatcgata 449

<210> 12483
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 12483

agcttccaag aatcaagatc aagactcaag attcaagaat caagagaaga attaatacag 60
 ataagtatga aaaagttttt tcaaaaactg agtagcacat ggatttttct caaaacatgt 120
 ttaccaaga gtttttactc tctggtaagc gattaccaga ttgttgtaat cgattaccag 180
 tagcaaaatg tttttgaaaa agttttcaac tgaatttaca acgttccaat tgatttcaaa 240
 aagctataat cgattacaat gttttggtaa tgcattacca atgtgcttga acgttgaaat 300
 tcaaattcaa atgtgaagag tcacattctt tcacaagaaa agctttgtgt aatcgattac 360
 actgatttgg taatcgatta ccagtgatag tttctgaaca aatcataaga tgtcactc 418

<210> 12484
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 12484

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gctttgatga acattcggag aggttaatgt aacaacgaga tgatgcgctc catgagaggt 60
tggatcaaat ggagaataca gaccatatga attgctcaag agcttccatt gttcaatttc 120
gagcgtctag atatataatg cgccttaatc cgacctacga gttaaaagtt atgaccattt 180
gaaatgctca agagcttcca ttgttcaatt tccagcgtca cgatatatta tgcacctgaa 240
tcggacctgc gagtgacaac ttatgaccat ttgaattgct caagagctta cattgttcaa 300
ttttgagcgt cacgatatat tatgcacctg aatctgacct gcgagcgaca acttatgacc 360
atttgaattg ctcaagagct tccattg 387
```

<210> 12485
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12485

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agctngcaaa ccaaatgctc accattttcta tatgagaagc cttcagggtg tttcatataa 60
acctcttctc ctaaatcacc attaagaaag gttgttttca catccatttg ttgcaactca 120
agggtcaaat gagcaactaa tgctaagata atacaaagag aatctttctt aaatatagga 180
gaaaaagtct ctgtgtagtc gattcctttt ttttttagta aatcccttag caacgagtct 240
ttccttgat ctctcaatgt tgctaatga atccctttta gtcttaaag taacatccca 300
tttttcgtga attaaattaa aaagggttta gagttctaga aaaaaaatg atgaggcttt 360
tgttattaaa taaataagaa gaaataacat tattaatata atgggttcgaa ggaaaataaa 420
aatgatattt gattattcat ttgatagaaa ataa 454
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<210> 12486
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 12486

gcttcaacat tcaatttoga gcgtctcgat atatgacagg actcaatctg acatccgagt 60
 aaaaagttat tgccgtttga attggctcag agcttcaaca ttcaatttgc agcgtctcga 120
 tatatgacag gactcaatca gacatccgag taaaaagtta ttggctggtg aatttgc tca 180
 gagcttcaac attcaatttc gagcgtgctg atatattacg ggcttcaatc agacatccga 240
 gtaaaaagtt attgctggtt gaattggctc agagcttcca cattcaattt cgagcgtctc 300
 gatataattac gggactcaat cagacatccg agtaaaaaag 339

<210> 12487
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12487

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 gttttaagag tagtgtccca ctggtaaaac taactttcca aatttttgcc ttgcgaggaa 120
 atggccccga ggaagcttgc ctcaaagagg tccaggaagg acaaggcagc cgaaggaact 180
 agttccgctc cggagtatga cagtcaccgc tttaggagcg ctgtacacca gcagcgttcc 240
 gaggccatca agggatggtc gtttctccgg gagcgacgcg tccagctcag ggacgacgag 300
 tatactgatt tccaggagga aatagctcta cggagtttta aaagattggc taagattntg 360
 ttaaaacata agcacttaga caatgaagga aagctggagt tgctgcacat gatg 414

<210> 12488
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 12488

cgcaagcttc aacattcaat ttgagcgtct cgttttatta cgggactcaa tcagacatcc 60
 gagtaaaaat ttattgtcgt ttggattggc tcagagattc aacattcaat ttgcgagctc 120
 tcaatatatt acgggactca ttcagacttc cgagtaaaaa gttattgtcg tttgaattag 180
 cttagagctt caacaatcaa tttcgagcgt ctggttatat cacgggactc aatcagacat 240
 ccgagtaaaa agttattgtc gtttgaattg gctcagagct tcaacattca atttcgagcg 300

tctcgatata tgacaggact caatcagaca tccgagaaaa aagttattgt cgtttgaatt 360
 tgctcagagg ttcaacattc aatttcgagc gtctcgatat attacaggac tcaatcagac 420
 atccgagtaa aaagatatt 439

<210> 12489
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12489

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 agattnacga caatgcctac aagattgact tgcctaggta gtataatgta agtgccactt 120
 tcaangtgtc tgacctctct cttcccgatg nagatggagg agccttggat ttgaggaaaa 180
 atccttttca agaaggaggg agtgagtagg acacaactaa ggacaaggac catgaagcac 240
 ttgaagcgcc catgaccaga ggcagactta aacaggccca acacatatta gagacaaggc 300
 tggccatttg tatagctgcc attgatgatg gttaaaggcc caagtggaga aagatgaagg 360
 cccagaggca gagccactac caagactatt aattgttgct gaaggcccan actaatttat 420
 aagcccaagt taaatatatt tttagttata at 452

<210> 12490
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12490

agcttatgct gcanatattt acaatagacc ttctcaacct cagcagcaaa atcaaccaca 60
 gcagagcaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacccata 120
 cctcagatgg cccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180
 tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240
 acagccaaca gttgaggccc ctccataacc tttcctcgaa gaacttgtga ggcaaatgac 300
 tatgcagaac atgcagtttc agcaagagac caaagcctcc atttagagct taaccaatca 360
 gatgggacaa ttagctacct aattgaatca acaacagtcc cagaattctg acaagctgcc 420

ttctcaagct ggtctaaaat ccaaaaatgt ca

452

<210> 12491
<211> 200
<212> DNA
<213> Glycine max

<400> 12491

agcttacaca caagaccata ctccctctgc gtctcaaacc caggagggtg ctccatataa 60
atctctctct caagatcacc atggaggaag acatttttaa tatcaagctg atggaggggc 120
cagtgatgta tggcagccat agcaagaaac agacgaacaa tagtgatttt ggctacagga 180
gaaaaagtat cacaataatc 200

<210> 12492
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12492

agcttcacat tctagacaag gtcaagttca ttgcgtctgc tacaaagtct acaaccaaca 60
gaataatgaa caagttctaa gtaacagaaa caagtgcctg atgtatagtg ttaaacaat 120
agagacattg acaccgagtc taacctgcat cttcttttggg gaaacacaag ggagggtgtaa 180
ttctgaagac atttccatag taaccacct taccaataag tactcctagt tctatagtaa 240
tttagaatga ccggttagta ataatataga agaaaactat agctaggatc aaaatatgtg 300
tctagactag agggatatgg attttacctt tcatnnggtc cattacatgc aatgtttcat 360
tttttgctgg agttttaagt tcacgatcag tgacaagttc aactcctagc a 411

<210> 12493
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12493

ttatccatga ctctctatgg tggtcagctt gtgcttgact cttcttctcc ttgaagtgc 60
anctccaatc atctttcttc cttctccatt ccgntaccat tgacctccac cacacacccg 120

cctccatcga tgaccaagat ccaagggcta caagctccac atggagctac atcaaattctt 180
ctaagtgcct gacttgcctt tgtgcaagac tcttcattgtt attttggttt tctctttcta 240
tcatttgcct tttggcatca tcaaaatcta caacattaca tataaccaca atcactagca 300
ccgttaccac cacctccatc atcattgcc aaccatcgt aaccaacatc accactacta 360
ctgacattgg taccaccacc ataacca 387

<210> 12494
<211> 370
<212> DNA
<213> Glycine max

<400> 12494

caatgtggaa aacaaagtaa gatcgcgaga tcagatagag gtggggagta ctatggtaga 60
tacacagagg atggacacac accaggttca tttgcgagat ttcttcatga acatgggatt 120
gttgcccaat acactatgcc tggttctccg gatcagaatg gtgtggcaga acgaagaaat 180
cgaaccttat tagacatggg gagaagcatg aggagtaatg taaagcttcc tcacattttg 240
tggattgatg ctcttaagac ggctgcgtat atattaaacc gagttocaac caaggctgtc 300
tcaaagacac cttttgaatt attcaaggga tggaaaccaa gtttgcgaca tatacgcgtt 360
tggggatgcc 370

<210> 12495
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12495

gaccgggat acttagagtc acctgcccga tgcaagcttg ttcttaactc atcttctcct 60
tgaagtggca tctccaacca tctttcttcc ttctccatc cactgtcatt gatcttcaag 120
aagcaaaaga ctccattgat gaagaagatc caaggcctac aagctccata tggagctatg 180
tcaattacta aataaaactt attaaaaaca tattcggttc agaacaaggc cgtcaaagtt 240
tacaaaagaa attttggtta atcaatgaga tgaaataaaa taaaataaca acatgcaatt 300
aaaagaaaaa ttcattcctca atgttgcac ctatcagagc attgtgtcct aacatcctct 360
agcacgaggt tctttaaagt catctacct gtcattctgt cccatgaaca caagattcga 420

gatcatcaca agatccanac acaaataaca cacagggagt gaattatcac a

471

<210> 12496
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12496

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atcgagggaa aaacgctcag aaactaatgg ccactacca ctaggaaatg aagtacatgc 120
tttatcagca ttaatatatt gttggtgttc attacaaaaa actaaataat aaaagggaaa 180
ttaattntaa tcatatctca accaaaagag aatcaaatag gaatttagga gataatataa 240
taaaggtgtt ttaggtcaaa tgctttagat ttctataaaa taatttttta tatattctta 300
aataaaagat atttctgaaa tattaataaa atctgaatcc aatataatat ttatttaaaa 360
aatgttctat gttgattatt ttatttactt ttaagatttc taactcgtca caactcataa 420
atcctaataa taaaattaag actgaaatat aat 453

<210> 12497
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12497

ttaagtcacc tgangctgca gctaagctcc ttcaactgca caaagctctt aatatttgaa 60
gagtatcctt gtggaacctt tactcgacga agacactgac aaaaacttat cttctccttc 120
ttggacaaag tatggcaggt tgggggcaag taaattttct tcccatcaga ccttggatgc 180
aactgtgac gtatacccat atcagctaga tcttgacggg tattcaagcc atccttcgtc 240
ttgccttgaa tgtaaggag cgtcctaate acactgtcac aaacattttt ctccacatgc 300
ataacatcaa tacaatgtct aatgtcaaga tcacaccagt atggaagatc aaagaanatg 360
gacctcttct tccatatgca actctgactt ttatccttct tttgggtctt cctaaataca 420
gtattcaggt gctgaacctg ctgatatacc tactcact 458

<210> 12498
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12498

tggaagaact aaacttgaga aattgcaatc ctatgagggtt gttgatggat aacaaatcan 60
 caattgattt agctaagcat cctgtggcac ntggcaggag taaacatatt gaaaccacat 120
 ttcatttccct acgtgatcaa gtgcataagg agaaacttga attggatttt ttgagggtctg 180
 aagatcaagt tgcagacata atgatgcaat cctaccccg c aaggcattgg atagaaaaac 240
 tccaagtaga ttgggccaga gatgcaagag aaggccctag gcttcttatg agccttaggg 300
 tagatttcgg gcccataggc taagtacgaa cccgcttacc tttgtaaata ttagattaag 360
 gtttcattat ttttgggcct tgtatttagg gctccataat gtangtagcg gaccctagaa 420
 atatangatt tttcagccct tgtatttt 448

<210> 12499
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12499

agctttttag tctctntga tcaaagggtt atatattata attctcaggc cataataggg 60
 atgatagaaa tagatctaaa ccaaatagtc tcctaattt atattgcccc taattacaca 120
 atgaatctta atgatttcat acaaaacata aacctagaag tccaggcaat aggggtttgga 180
 agaaactttg agggacataa cttacacttg gatattacct tcattggcag aataagtgat 240
 caaatatccc ctagatacat gataaacact aatccattag tgacaacctt atcatctgat 300
 ggaatccaat ttttgccacc cgaaatcttt gattcctcta gaaacaaaa caatcaatgg 360
 caaaaacata tagatgctgg atcctctagg atggcaataa ccattcgtgg atcagctata 420
 ataacaaaca gaagagatag tctttta 447

<210> 12500
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12500

agctntgttag cagatgccac tctactctaa attttngaaa gatatgttaa caaggaagca 60
taaatatatt gatcaggaaa acatcatagt ggaaggaaat tgcagtgetg tgatecaaaa 120
gatecttcca cccaagcata aagatcctgg aagtgttaact attccttggt caattggaga 180
agtcaatggt ggaaaagctc ttattgacct gngagccagc atcaatttga tgccactctc 240
catgtgcaga agattgggag agttggaaat aatgcccact cgaatgactt tacaattagc 300
tgaccgctcc attactaggc catatggagt aattgaagat gtgttggtca gagtaaaaca 360
ttttatcttc ccggcagact ntgtggtaat ggatatctct aaagatactg a 411

<210> 12501
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12501

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taaaaagtta tagtcgtttg aatttgctca gagcttcaac attcaatttc gagcatctcg 120
ctatattacg ggactcaatc agacatccga gtaaaaagtt tgttggttga attggctgag 180
agcctcaaca ttcaatttcg agcgtctcga tatattaagg gactcaatca gacatccgag 240
taaaaagtta tggtcgtttg aatttgctca gagcatctac attgaattgc gagcgtctcg 300
atatattacg ggactcaatc agacatccga gtaaatagtt attgtcgtcg gagtatgctc 360
agaggttcaa cattcaattt cgagcgtctc gatatattac 400

<210> 12502
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12502

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agctatcgag aaattcaaat ggtctatact tctaactcgg aggtcctata gaggtgcata 120

atatacttag acgctcacaa ttttacaatg gaagctctnt ggctntacaa atggtcataa 180
 cttttcactc gagcgccga ttaaggcgca taatatatcg agacgctcaa aagtgaacaa 240
 tggaagctct tgagcaatcc aaatgggtcat aactngtcac tcggaggtcc gattcaggcg 300
 cataatatat cgtgaccgct gaaattgaac aatggaagct cttga 345

<210> 12503
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12503

tcagctgctt ctcaactcnn tgcttctcaa tgccccacca agaaaaccat gattatgncg 60
 ggccaagaca tttatagtag ccaagatgag gttactactt cacttttcta tagtgacagt 120
 gaagaagcaa aagggaaaga atntagtgaa gaaatctacc cccaagaaga agggaaacctt 180
 ttaatgggtca gaaggcttct aggaggccaa tctagtgtact tgaactaatc tcaaagagng 240
 aatatttttc acacaagggtg taaaattttt tataacatgt gctctctcat tgtagatggg 300
 ggttcattgtt gcaattgttg tacnacaaga ttagtctcta agttaagcct tgctatcact 360
 ccccatccaa agccttacaa acctcaatgg ctcaatgaac aaggagaaat gatagtcaat 420
 caacaagtga aagtgtcatt ctc 443

<210> 12504
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 12504

agcttataat atattgatat gctcgaaatt atacattgta agctctcgag aaattcaa 60
 ggtcataact tttcacacgg atgtccgatt cgggcaaatac acatatcgag acgctcataa 120
 ctaaacaacg gaagctatag agaaattcta atgggtcaaaa cttttcacac ggatgtccga 180
 ttcaggcgaa ttacatatcg agacgctcaa aattgaacaa cagaagctct cgagaaattc 240
 aaatgggtcat aacatttaac tcgaatgtcc aatttaggcg catcacatat agtgacactc 300
 gaaattgaac aacggaagct ctcgtgaaat tcaaatgggtc ataacttttc aactgagggt 360
 ccgaatcagg cttataatat atcgatatgc ctcgaaataa acatcggaata ctcctgc 417

<210> 12505
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12505

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 atttttaagg cttgcttttc aaagttcaaa ttaataaaat ggtaaatagt cacttttata 180
 tctgaatgtg tagtttacta acaaattgtgt ccctganaga tgaaaataca aaatttagtt 240
 cccaaaatgg taaaaagtgt gaaaaatata tctgactctt aacttccgtc catcaccatt 300
 aataaaatag tatacgtgac acaaatgaat gaatttatca ctgaaatgat tgtcaacgtg 360
 attatctcta ctttntgtct tcccactctc tangaatatg aatgagtaaa tagtcacttt 420
 tgtccatgaa tatgtaattc gctaacaaat gtgt 454

<210> 12506
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 12506

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 tgttcttggt gcgagatga tggtagagcg ggtgaaccag aagcggaagt ttcttttggt 120
 gaggtagcca tggaaaagca gagcggttgg aatgatttcg taaatctcag aaaactattg 180
 ggaaatgctg gtgaaaacac gaatgccaag cagatataaa tttgaatgaa gaatgtagag 240
 gggcgtgtga agcaacggtc gaatttgctt tgtggtgaac gtgctattaa tgttaagtga 300
 ttcgtttggg cacgttcaga ttgctgtagt tgctataatt cctctagcaa acaaatgccc 360
 agcttgcccc tcagttttcc aaactgattt gca 393

<210> 12507
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 12507

ctgcagctct tggatgctac ttttatactt tcagatcata atgcatcctc caaacaagga 60
gaaaatggca ttcattcattg cagatgccaa cttttgctat aggaacatgc catttgacct 120
caaaaacata ggcgcgacat atcaacgact aatagaccga gtcttcaaag aacagatcag 180
acgaaaaatt gaggtatatg tggacgacat ggttgtaag tctcaaagca taccctaaca 240
tctggtggac ctggaagaag tatttgggaa ctatgcaa atcgacatgtg cctcaacct 300
gaaatatact tttggggtag gtggcgacaa gttcctcggc ttcattgatca cacatc 356

<210> 12508

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12508

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ccacattggt acaactccct ccatcaatga tcaccatgca aactttgcc a ttgatcaaac 120
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tgatgaocaa 180
gtaaccgcct aatcatcaac aattctccct ccagtgtttt ctccacttcc tctcatcat 240
cctcactctc ttctcccttt tcaacttcag actcattaat gtactctcca tctctaagaa 300
tcattggcttt cttgttaggg cactcatatg cataatgtcc caagccttgg caccaaaagc 360
acttcacatc ctggctcttt tttt 384

<210> 12509

<211> 216

<212> DNA

<213> Glycine max

<400> 12509

cttgtattat acgtagatga tattctgctt gcgactaatg ataagggtat actatatgag 60
gtgaaacaat ttctctcaaa gaactttgat atgaaggata tgggagaggc atcttatgtc 120
ataggcataa agatccatat agaaagatct cgatgcattt tacgctcgtc tcaagaaacc 180
tatatcaaca aagtcttaga gagaattaat atgaaa 216

<210> 12510
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12510

ataactcgga tgtccganc tggcgacaaa ttgatcgaga cacttgatat tgaataacag 60
 aagctctcga gaaattcgaa tggctctaac ttttcacacg gatgtccgat tggggcgcat 120
 aatatgtcga gacgtcga attgaacaac ggaagctctc gagaaattcc aatggacata 180
 acttttctact cggaggaccg attcaggcgc ataatatatc gagacgctcg aaattgaaca 240
 acggaagctc ccgagaaatt caaatgggtca taacttttaa ctcagagggtc cgattcaggc 300
 gcataatata tgcgacgct cgaaattgaa catcgaaagc tctctagaaa ttcaaattgga 360
 cataactttt cactt 375

<210> 12511
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12511

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 gtcatttctt cattcagctn tgaagagaat atcatggatc actgtatata ccagaaggtc 120
 agtgggagta agatttgttt ccttgtatta tacgtagatg atattctgct tgcgactaat 180
 gataagggta tactatatga ggtgaaacaa tttctctcaa agaactttga tatgaaggat 240
 atgggagagg catcttatgt cataggcata aagatccata gagaaagatc tgcaggcatt 300
 ttaggcttgt ctcaagaaac ctatatcaac aaagttttag agagatttaa tatgaaagat 360
 tgtttaccaa gtgtagctcc cattgtgaag ggtgacaaac ttgctntgag tcaatgcccc 420
 aaaaatgatt ntgagcggga aaacatgaaa aatattccat atgcttcagc agttggaagc 480
 ct 482

<210> 12512
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12512

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atctttatc aatttttatg aagggtcaac gatacagtaa attggtatac cacagccac 120
agagaactag tttcagaaat tctctaaaag ctggtgcttt aattagatag atgctgcaa 180
acgggtgtttt attgccc aaa tgaaaaattc tttattacta gtaaagtaga actgatatat 240
catttctgaa tttgttatgg cagcttcata cttttccaga aggaaaagtg tatcaagaag 300
atgtgcctat aangcgggtg aaatggggaa ctgctagcct aattgttcga gcacctataa 360
ctccaatt 368

```

<210> 12513
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 12513

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gcgcttcaac atgatgactg acaagtatgg cataaacct ggtatcaac attattcttg 60
tatggctgat catcttggtc gtaaaggaca tctcaaagaa gcttttagaaa ttattaaaag 120
tatgccttct gaacctgatt ctggaatacg gagtgcatg ctctctgctt gcaaacttca 180
tggttaagatg gagatgggca agcatgtgtc tgaacagcta tataaactgg agccccaagt 240
ggcacgttcc atacgoggag atggctaaca tatatgcac agctgaaatg tgggaaggca 300
ttgcagctat tataagaaat atgatatatc ttcaagtcac gaaa 344

```

<210> 12514
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12514

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agcttggatt tctttttagt agggaancta ntctttctaa gatggagcca aaccagtc 60
ccctcattaa gaactagctc ttttcttctc ctattgcctt tagttgaata cacctttgtt 120
tggttctcta tttgttctt aacctctca tgcaacttct ttacaaattt tgacctagat 180
tcccccttct tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacagtgtt 240

```


aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300
 ctgttgtagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360
 agaagagccc ttaanagggt ggataaaaaac ctattcacta cctctgtttg cccatcagtt 420
 tgtggatgac aagtgggt 437

<210> 12515
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 12515
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 gtgaagaaga atgtggcatt taactggggt gaaaaacaag agcaagcatt tgatttgctc 120
 aaacaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180
 ctagaatgtg atgcctctgg agtggtagtt ggagctgtat tgttacaagg tgggcaccct 240
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300
 gagctttatg ccttaataag agcctacaa acttgggaac attaccttgt ttccaaggaa 360
 tttgtcattc atagtgatca tcaatcactt aagtacatta gagggcaaag caagttaaac 420
 aagaggcatg caaaatgggt agagtac 447

<210> 12516
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 12516
 aactcaagct tcacgacaa gcctatcgat gctcttggtg gtgtataagc atttttgggg 60
 caagccttgt tgaggtcggt gtagtctacg cacatcctac atttcttagt tgctttcttc 120
 accacgatga cgttgggttag ccaagttttg tgggccactt ctctaataaa ttttaacaacc 180
 aaaagtttct cggtttccac ctcaattgtt ttctctctt cgtctctcag tttgcgcttc 240
 ctctgagcta tgggtttatc cttaggggaag attgccaact tatggaaaat gaagtcaggg 300
 tcgatgcctg acatgtcaga agcactccat tcaaacaagt cggcattgtc aaagagcgct 360
 tgagtatatc ccttttgcac ttcgtctccc atctctt 397

<210> 12517
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12517

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tagtcaacac acttactgaa catacactta ctacaatgca taaagtataa aaaataaata 120
cacttgaata agcttgatct cacaattctt aacagcctca cgaacaacat ggaaatcact 180
agaatatgct atgtctttcc atgctaaaca ggattttcag caatgacaat tgcttattta 240
ctgtcacaat aaatctcagt agcgtccatc ttctccactc ccaaatacaa cataattttc 300
ttcaacaaaa tggcttagtt agttgctgca gctgctgcta catattcactc ttcagcagta 360
gatngagata caatgtcctg cttatttgag ttccaagaga acatgtgtga gcctaacgaa 420
ataacatatt cagtagtgct 440
```

<210> 12518
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 12518

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agcttaatag ctcgtatact gatcataatc tcaaagctta aaacacactc gagcaagtac 60
tagtcaacac acttactgaa catacactta ctacaatgca taaagtataa aaaataaata 120
cacttgaata agcttgatct cacaattctt aacagcctca cgaacaacat ggaaatcact 180
tgaatatgct ttgtctttcc atgctaaaca ggattttcag caatgacaat tgcttattta 240
ctgtcacaat aaatctcagt agcgtccatc ttctccactc ccaaatacaa cataattttc 300
ttcaacaaaa tggcttagtt tggctgctgca gctgctgcta catattcagc ttcagcagta 360
gattgagtta caatgtcctg cttatttgag ttccaagaga acatgtgtga gcctaaggaa 420
aaaacatatt cagtagt 437
```

<210> 12519
 <211> 411
 <212> DNA

<213> Glycine max

<400> 12519

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agcttaggaa tcaatagcag tttggtgtt ttagttttta tgtataataa tttcactggt 60
accctcccac caaatctttg ttttggaag cacttggtca ggctgaatat ggggtggcaat 120
caattttatt gcagcatacc tcttgatgta ggaaggtgta caactcttac aaggttgaga 180
cttgaagata ataatttaac tggggcactt cctgatTTTT aaactaatcc aaacctctct 240
tacatgagca tcaacaacaa caatatcagt ggagcaattc catcaagttt gggaaactgc 300
acaaatctct ctctttttaga tttgtccatg aacagcttga cgggtcttgt accttcagag 360
ctaggaaacc ttgtgaatct tcagactttg gatctttctc acaataactt g 411
```

<210> 12520

<211> 423

<212> DNA

<213> Glycine max

<400> 12520

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agctataata tattattaca ctogaattat atcatcagaa gctctcgaga aattcaaattg 60
gtcataactt ttcacccgga tgtccgatta tggcgaatca catatcgaga cgctcaaaat 120
tgaacaacgg aagctcttga gaaattctaa tggtcataac ttttaactcg gatgtccgat 180
tcaggcgcat cacatataga ggcgctcgaa aaggaacaac ggaagctctc gagaaattca 240
aatggtcata actttccaca ctgagggtccg attaaggatt ataatatatc aagacgctcg 300
aaattaaaca tcgaaagctc tcgagaaatt caattggtca tcacttttca cacggatgtc 360
cgattcgggc gcataatatg tcgacacgct cgaaattgaa caacggaagc tctcgagaaa 420
ttc 423
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<210> 12521

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12521

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agcttatttc tcattttggt cttttacttt aaatttggtt atntgtcggt aaagtgaatt 60
tcgtaatagt cgcacgacgt ttgatttcaa taaatctcct tttacatggt ttttaaactc 120
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ttttaatcaat atctattttta taaaatcaca atcggtccatt tcatgttttag tgcaatttgt 180
 gtgaattttac ttttaataaca aataacatca ctattttttg actgaaaaac aaacacacaa 240
 acaccttctc ataattcact aggtcagggg taaagatttt tagatatcaa aagaatacag 300
 gcttatagat ggaattgctt ggagccaaat atatatatat atatatatta ttggaaattt 360
 ctctataatt aaggttggtt cacattcaag taaacatgca agttcaaata catgagaaat 420
 tgaagagtac a 431

<210> 12522
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12522

agctntcttc aatcgtaaat acgggtgtta tgtttgagaa atcttcaatg cctagtatat 60
 attgtattct ttccatgttt caattggatg aagctcgtct ctttctcacg gataggacat 120
 gcatgatgtc ctttgacact atatccactc aaattctcat atgctggaaa gtcattaatg 180
 gtacaaatga tcaattgtct tccattgggg agaatcagcc agatgtcaga gcaatccatc 240
 acttttttct gccatatgca tcatgttcat tagcaaacaa tcgcttaaac cttggaatta 300
 ttgaaagata ctgacacacc tttgctggac gatcattggt tgtggttgca tcatcactac 360
 atttgtcatc cttcatnttg taccacgata ccccatgt atggaacttg cacantttcg 420
 gcaactaatt tctatacaat atgcaatcat tatg 454

<210> 12523
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12523

agcttcatga tgttgaatca atattgattc ttgagttttg atgataacaa agatgatgac 60
 aaaaagccca agagaatgag ttcaagattg aatcaagaac acttcaagaa tcaagagaga 120
 atgagtttca agatttaagt tgaagattca agaatcaaga aaagactcaa tcaagataag 180
 tactaaaaag tttttcaaaa cattgagtag cacatgaatt tttcacaaaa ctttttacca 240

aagagttttt actctctggg aatcgattac cagtagcaaa aattgttttc aaaaagcttt 300
 caactgaatt tacaatgttc caattgattt caaaatgggt taatcgaata caatgatttg 360
 gtaatcgatt accagtgtgg ttgaacgttg aaattcaaatt tcaaattgtga agagtcacat 420
 cctttcacan aaatg 435

<210> 12524
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12524

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 gatgcgggga aataatatat cgagacgcac gaaattgaac aacggaagct ctcgagaaat 120
 tcgaatgggtc ataacatttc actcggatgt tcgatccggg gacataattt atcgagacgc 180
 tcgaaattga acaaccgaag ctctcgacaa attagaatgg tcgtaacttt tcacgcgaat 240
 gttcgattcg gggacataac tcacttagac gctcgaaatt gaacaactga agctctcgag 300
 aaatttgaat ggtcataagt ttccacacgg atgtccgatt cgggaacata atatatcaag 360
 acaatcgaaa ttgaac 376

<210> 12525
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12525

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 gtcctttgac actatatcca ctcaaatact catatgctgg aaagtcatta atggtacaaa 120
 tgatcaattg tcttccatcg gggagaatca gccagatgtc agagcaatcc atcacttntt 180
 tctgccatat gcatcatgnt cattagcaaa caatcgctta aaccttgga ttattgaaag 240
 atactagcac accnttgctg gacgatcatt ggttgtgggt gcatcatcac tacatttgct 300
 acccttcatt ttgtaccacg atacccacac tgtagggaac tcgcacattt ccgcaaaacta 360
 attnctatac aatatgcgat cat 383

<210> 12526
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12526

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 aytcccgaag aaaaccgggc tcaccgtgat aaaaaaatga gaaggatgag ttgattccta 120
 ctccgggtgca gaacagttgg agagtatgca tcgactatag gaggctgaac caggttacca 180
 aaaaggacca tttccactg ccattaattg gccagatgct tgaacgcctg gtaggtaaata 240
 ctccactactg tttccttgat ggtttttctg gttatatgca aatcactatt gctcctgaga 300
 atcangaaaa gaccacattc acctgccctc tcggcacttt tgcctatagg aggatgcctt 360
 tcggcctat 369

<210> 12527
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12527

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 cttgtgtctt cttcatatat agagcatgca tgatggccct taacactata tccactcaaa 120
 ttctcgtatg ctggaaaagtc attaatggta cgaaatagca ttgcacgcaa cttaaagtgc 180
 ttattttgat accatcaaac acagtaacct cttgtccca caactttgct aagtcttcaa 240
 tcaagggact gagataaata tcaatgtcct ttctagttag tcttgggctt gatatcatca 300
 tagataacat catgcatttt tgcttcatgc acaaccaagg agacaagttt taaattacta 360
 gcanaatang ccatgaact 379

<210> 12528
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12528

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tggatacatc cactgtaaaa aaatgggatt acataactga atctccctca ccaaatgcac 120

aattaagtga accataatgt caaaaaatgg tggaggaaaa tacatctcca attgacaaag 180

gacaatggca gtctcattct ccaaatcatc caattgtcga gggccaatgg ctttggttaga 240

gatagcatta aaaacaaagt acaaacgatt tattgcaacc ctaactttgt caggcaagat 300

accgcgaatc gctacatgca atagttattg cattaacaca tgagaatcat gagacttcaa 360

gccaaccaat tntagatcat taatggatac aaggctcttg atatttgaag agta 414

<210> 12529

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12529

ttacgtctat ggacttagat tgtttgcctt ttctttcatt ntagaggcac ccatgtgatt 60

tggatatcaa tccctttaaa ctttgaaatg accacttttt cattttatttt aattatgttt 120

atTTTTtgga tacgttttga tgcattggat acatgcctcg aaatacaagg ctaaaacct 180

atactactag aatggccaaa atacaaggcc caaacgaagg aaaaacctat tctaataattt 240

acaaagataa gcgggctcat acttagccca tgggctcgaa atctacccta aggctcatga 300

gaaccctagg gccttccctt gaatctctgg cccaatctac ttggagtctt ctatccaatg 360

cccttgc 367

<210> 12530

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12530

agcttagcag attatcagca tttttgatan ttaaatttcc ttgttgcggc tcagtcgaat 60

accacttcaa ctcatTTTca aacacagccc agtTaaaatg cttcacaacg aagttaacaa 120

agtcctcatt gtcaatgttc attctactga tgcattgtcc aattgggaaa tcattctgtg 180

tttgtataac ttttaccgag gtgttagcat agctgccaga gtccagtcca gagaatttca 240
 ggataacatc acgtttacta atctgcagtg cagcaagtac gtataaatta aaatatatat 300
 aaaaataatg caaatcatct catattctat caatgaagaa tggatcatgt aatattaaga 360
 taaggcacag aagtctgaaa catacttagc ttcatgcaac attta 405

<210> 12531
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12531

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 atagacctcc aatctttaat ggagagggtt accactactg gaaaaccga atgcaaattt 120
 ttattgaggc aatagatcta aatatctggg aagccataga aatagggcct tatataccca 180
 ccatagtaga aagagtttca atagatggta gttcatcaag tgaaagcata accatagaaa 240
 aacctagaga tagatggtct gaagaggata gaaaacgagt acaatacaac ttataagcca 300
 aaaacataat aacatctgcc ctgngaattg atgaatattt canggtatca aattgtaaga 360
 gtgctaagga gatgtgggac actcttcgat taacacatga aggaactaca gatgttaaaa 420
 gatctagaat atatgcacta act 443

<210> 12532
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12532

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 gcgcaacctt gttcatcttc ttgttgtgaa aggaattgga gtacatatcc atttatccat 120
 tctttaaaga gaaacaagat ggcaccacat agagttgaag atttagtatt tgttcatagc 180
 aacctacgac ttctctcaag gaatactcca caatatcatc aagaggaaac taaaatgtgg 240
 gatgtagctg gagatgattt tgggtcactt gatgattgtg gtattcttga aattgttagt 300
 ttgtctttag atgaaccaga gttagagggt gtctttttca atgatgattg ctagtttgtg 360
 gaattcttga agacttgaag ttgctaatt 388

<210> 12533
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12533

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 catttgcatt attgggaata gtaaatttga gaatgccatg ctagatctag gagatcagtt 120
 agtgtcatgc ctctgtccat tttcaattct ttatcccttg gacctttgca atctacagat 180
 gtggtgattc atttggcaga tagaagtgtt gcttaccctg cagggttcat agaggatgtg 240
 ctgggttcggg ttggtgaact tatttttctt gttggatttt atgttcttaa tatggaaaag 300
 ggagttttcc catggttcaa ttccaattat tttaggtagg ccatntatga aaacagcccg 360
 aaccaagata gatgttatgc tagccattgc tatagaaatt gtgatattgt tgtcatttaa 420
 cattttgatg catgaacatc c 441

<210> 12534
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12534

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 cctcatggct tctttgagct tgtggtaatc gatgcatatt ctccagccag tgaaagtctt 120
 tgttgggatt aggtcattct tttcatcttg aatgattttc gtgccccctt tctttggtac 180
 cacctggatt gggcttacct aagtactatc agaaatgggg tagataatcc aagcctctag 240
 aagcttgagc acctcttctt tcattgatgg gttaaggctt ctcttgggct gtctgactgg 300
 tttgtaatct tccgccatca ttatgttgtg catatagtag acagggttga ttcttttgag 360
 atctgatatg tgccacctta ttgtcactg tcaatgtaca tccccttctt ggtgaagatg 420
 tccttcatga atttggcgt 439

<210> 12535
 <211> 363

<212> DNA
<213> Glycine max

<400> 12535

taaatgtttg taatcaaata tgttttgctg tggatatga aggttggtac ctgcggtaat 60
gtgcctcttg agtcatcttt ccagaaagtt cccagatgtg tatatacgtc aacaagttta 120
tatgagtatc gaggatggaa ctcaaaagct gccaatccta cacaccgtcg gcttacttgg 180
gycccttagac tgctggaagt aagttactga ctatcttttc tgggttagtt attatggaat 240
ttaaactctt actctgacat cctttgtaca attttacttc tattattgcc cccaagagcg 300
tggcagttaa ggacatgctt cttctgatta aatttcaagt tgaatttatt gttctgaatt 360
aat 363

<210> 12536
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12536

tcaaggaaca aagaatttct tattgtttga cttcttttga tgacacanaa gaaatgtggt 60
tggttggtggg gtctttgggt aaagtgaag atgcaaaaga agtggtgaca acacctcttc 120
tcaaaaaccc tttgcaacct tctttttact atctttctct tgaagctatc tctggtgggg 180
acactcgatt gtccattgag aagtccactt ttgaagtng ggatgatggg aatgggtggg 240
tgatcataga ctctggcacc acaatcacct acgttcaaca aaaggcctat gaggcactca 300
aaanagagtt catttctcat accanacttg ctttgacaaa actagctcaa caggggtgga 360
tctatgtttc tccttgccat canggtcaac acaagt 396

<210> 12537
<211> 509
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12537

gatactgatt tgaaattatg attctcataa actaggagat tgggaaacaa aaacttcctc 60
atcaatatat ccatttaggg aaacactctt tacatccatt tggtagaact taaaattcat 120

tattcaagca taagcaagaa gtaaccttac aacctctaata ctagctaccg gtgcatatgt 180
ctcatcaaag tctataccat cttgtgggtt ataacctttg gctacaagggt gagccttgaa 240
aacctatttt cctagttata acactatttt catcaagctt gttcttataaa acctatttag 300
ttcctatgat gttcaagtta ttagtacttg ttatcaattc ccatacatca ttccttttaa 360
attgatntaa ctcatcatgc atagacataa tccanaactc atcttttaata gcatcatcaa 420
aaattaaggg ttcaacttaa gacacaaaag ccatatgttc acaaaacaaa cttaaagagt 480
gtctagtaga tactctcttc tcaatatca 509

<210> 12538
<211> 475
<212> DNA
<213> Glycine max

<400> 12538
agcttcgaga ttttctctt gcaattatgt atccttaaca tgtgcgagaa gtttctgtta 60
tatcttgaga gacttgctg ggatattaaa gataagtcac ttggtacagt gtcaatacac 120
gtttcaggaa agaattgttc atgatcttca acattgttag tcttttctt gttgtaggaa 180
actaatctt ttccttagac taaacacaac attcttcttt tataatgaat ataacataat 240
attctattat tgacttatat tgtgttaaag atggaaggat ctcaagagta agtctttatt 300
atagtaactt tcagggaataa ctcatagag ttactcaatt tcatataata tttcacattg 360
ttttataatg gaacatcata ttttgtactc taaacaatca attaactttt actctactaa 420
gagactatgg tctcaataga tccacatata ttatataata tttattatat tctat 475

<210> 12539
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12539
gtcacctgcg gtcacgcacg cntngngatg cttgtccaaa aggcaaacat gtcacagtct 60
cntntaaatt aaaaagggtg aagtttctac atctaaacct ttggaacttt tacacttgga 120
cttgcttggc cctctagaa ctatgagttt gagagttgac tattatgctc ttgtcattgt 180

tgatgattac tcaagatttta cgtggacttt ttttcttgct ttaaaaagtg ttgcttttaa 240
 agctttcaag aaacttgcaa aagttattca aaatgaaaaa gatttgacaa ttaagacctt 300
 gagaagtgat catagagggtg aattccacaa tgaagatttt aaaacttttt gtgaagaana 360
 tgggatttca cgtgattntt ctgctactag aacttcacaa c 401

<210> 12540
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12540

agcttcttag ttcttatgat gcagatgggt tttatctacc tcatgcactc ctctaatac 60
 tatggcatca tttctggcgc taaactgctg ggagttggaa gccatcttct caattaaatt 120
 tctggcttca gcaggagtca tgtctccaag ggctccacca ctggcagcat ctatcatact 180
 tctctccata ttactgagtc cttcataaaa atattggaga agaagctggt ctgaaatctg 240
 atgggtggggg caactggcac atagtttctt aaatctctcc cagtactcat acaggctctc 300
 tccactgagt tgtctaatac ctgagatata cttctgatg gctgtgggtcc tggaagcann 360
 ggaaaattnt tctaagaata ctctct 386

<210> 12541
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12541

agctagccac aagaatatct aggatgcttt gcttcattga atgaaagcag tgagagcagt 60
 gagtgtgtgg tggaacatca acatgggtgct agttttcata atgaggtgga aacagttaat 120
 gagtccaaga agagcaaggg gcatgagtgc ccaatttgcc taaaggtttt tccatgtggc 180
 caagccttgg gtggccataa gagatctcat atgggttggtg ggtctaagag tagaagcttt 240
 caaacaattg tgcttcanga accagtggca gaaattaggg acttccttga tcttaatctt 300
 cttgctgcta ctaaggaaga aagcaatagc catgctgact ctaacagtaa c 351

<210> 12542

<211> 196
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12542

 tatgacacag tctcatgggc ggtcctggac attatgcatg atagacagcg ctctgtcat 60
 aaatggacaa agcggatctc acctgtctt cactcagcaa ccatctctat ccttattaat 120
 ggcagcccta caaaggagtt taccctatct agaggcttga ggcaagggga tcccctancc 180
 cctctactct ttaaca 196

<210> 12543
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12543

 acgcggacaa gcatcgcagg gatgttttat ttgttcttgn ggactgngtt ctggttcgtc 60
 ttgcgcccta ccgacagtcc tccgccaaag gggatccctc gaccaatgtg aaattggctc 120
 gccgctatta tggcccatct caggtcacgg ctaagatagg accagtagca tatcgtgtga 180
 actttccggc aggtgtacgc attcaccggc tgtttctactg ctccaacctc aaaccttttc 240
 ggggcgagcc cggatccact cctgcaattc ctttaccacc caatttccat gagaatcagc 300
 cgcttatatt tccccttgcc attctgggat ctgctcgcgc aacagctgag cctcacaacc 360
 cttggcaggt tttggtacaa tggcaggggc tctcacc 397

<210> 12544
 <211> 330
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12544

 tatcttttgt gtgggatacn caatgtgagc atagtttcca gacccttttt gaaagnataa 60
 cgaccgctcc agtgctagtt ttgcctaacc cgagagaacc ctttgagggtg tattgtgatg 120
 catcanagat gggtttatgc ggagtgttga tgcaaaatga ccaagtgggtg gcctatgctt 180
 ctagacaact taagactcat gagaaggaat atcccacca tgatctaaag ttggttgctg 240

agtttttgcc ttaagaattg aagacatata tgtttggtc taagttcgaa gtgttttagtg 300
atcataagag ccttaaatac ttgttttagtc 330

<210> 12545
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12545

agcttattgg agttatcacc acagaatgct ntttatgcaa tcttaccocg caagggcatt 60
ggatagaaga ctccaagtag attgtgccag agatccaagg gaaggcccta gggttctcat 120
gagccttang gtagatttcg agcccatggg ctaagtatga gcccgcttat ctttgtaaatt 180
attaggatag gtttttcctt tgtttgggccc ttgtattttg gccattctag tagtataagg 240
ttttagcctt gtatttcgag gcattatgag tagtctttgt agtagagaat tttttgtatt 300
ttcatgtatt ttgtcatggg ggtgagctta gctattatag ggggtgtgta gctaagctct 360
accttctcat ctcaaggagg tgagcttagc tattagagag gtgtgtgtag ttaagctcta 420
gcttc 425

<210> 12546
<211> 507
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12546

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ttnttctgat gatgaccgat tgtcaattag ggatcaactt gaaacttatg tgcttcaagt 120
gagaagaaat gcttcttttt ccacttgtga agatgttcaa agtttggcta tgaagatggg 180
tcaaactgag aaacatttgg tatttccatt ggtttataaa cttattgagc tagctttgat 240
attgtcgggtg tcgacagcat ccgttgaaag agctctttca gcaatgaaga ttatcaagtc 300
taaattgcgc aataagatca acgatgtgtg gttcaatgac ttgatgggat gttacaccga 360
gcgggagata ttcaagtcac ttgatgatat tgatattatt cgaacattta ccgcanagaa 420
gtctcggana ggacacttgc ctcgtaattt tatttaaccc gctatggtaa gaaatatggt 480

atctctttat tttaaactat atttttg

507

<210> 12547
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12547

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tagctcaaaa taacctttat caaactcata taaccataaa tgtgactgcc aagtaaattt 120
aagcaatggt ttaattagat gtattttgat taaccgtaaa caaatacatg ttaaaagtcg 180
cgttttatgc actattaaaa catattntgt aaagtatgcg tctgatgtgg tagataataa 240
aaaanaataa agtagtgtct atcaattatt atttttaaaa aaatactttc ttgagtctct 300
tttatttaat tatattgtta atttaagaat aaatacagtg acagttaana aaccatccct 360
attcgtaaaa ttgacctttt gaacttgtaa cttaacattg ttgtgaactc caatggatga 420
aaatatataa ta 432

<210> 12548
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12548

gcattgtcgaa cggtannaaa ttgaatgttt gggtttaagt tntcaattat aaaaaaatg 60
cttgaacctt tattgtttac gcttgcattt ctccttactg agttctcttt cttcttgagt 120
gtgagcttct gcttgtgctt gctttgtgct ccttggttca aatttggtgc ttccttcctt 180
caagtgtgtg cccttatcct tcctttctag tgagtgttta taaaataaat aaaatgtata 240
tattctgtta ataaatatta taagtttaag ttacttagta ttaacaaata ttttaagtta 300
gttagtatgt aaatagtagt tttagttacta ttaacaaaaa ttctaaattt aagttagtta 360
gtatcggtag gtattgtgtt gatatttctt acgtattaat agatatatca atgttagatt 420
agttactata aaaatattat ttggttggtt agaatgacaa tttattgagt tatcgtatgt 480
attgtcagac attatatgtg tgatatatat 510

<210> 12549
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12549

tggactgac cacttggtgc ccaagtttca tagtcttgca ggtgaagacc ctcataaaca 60
 tctgaaagaa ttccatattg tctactccac catgaaacct tcagatgtcc acgaagatca 120
 catctttcta aaggcctttc ctcattcttt agagggagtg gcaaaggact ggctatatta 180
 ccttgctcca aggtccatca caagctggga tgacctcaag agagtattct taganaaaat 240
 tttccctgct tccaagacca cggccatcag aaaggatatn tcaggcatta ggcaactcag 300
 tggagagagc ctatatgaat actggggaga gattaanaaa ctatgcgcca gttgccctca 360
 ccccnnnat ttgagtaact tctctctata ttttatg 397

<210> 12550
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12550

gcttcaccac caaaagagtg tcttggataa gtatcttaca gaggaagctt attgaaggan 60
 aagaatgaga aagatagagt gatgcaatcc taccctctaa gggcattgga tagaagactc 120
 caagaagatt gggccagaga tgcagagaa ggcctacgg gtctcatgag ccttaaggta 180
 gatttcatgc ccatgacatg ggctaagtat gaactcactt atctttggat attagattaa 240
 gggatcatta ttattggccc ttgcattcag ggctccataa tatatgtagg gtacctt 297

<210> 12551
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 12551

cttgatattg atggcacaca taatattata tgtcatatat tctgcgtatc aggtgtgctc 60
 ttaatgtaga attttaggct actaagcttt caccttatca attattataa ttataactgc 120

gtaacccttt ctttcgaact tttggcaatg tcaacctgtg ctggtagagc aagatcacga 180
 caaaacagag aatcggaat catgaaaacg taatgcacga actcagggtta atccaaaccc 240
 tgatccagtt ggcactgtcg agccttcaac gacaagtact acttcctaata atagcactca 300
 agactaatat gtatctggag ttccaacata ttg 333

<210> 12552
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12552

agcttcagaa tactttttcg agcgtctcaa tatattactg gactcagtca gacatccgag 60
 caaaacgtta ttgtcgtttg gattaactca gagcttcaga attcaatttc gatcgtctcg 120
 atatattacg ggtctcaatc agacatctga ggaaataagt tattgtcgtt tgaatttgct 180
 gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
 gagttaaag ttattgttgt ttgaatttgc tgagagcttc aacattcaat ttcgagcgtc 300
 tcgatattnt acgggactca at 322

<210> 12553
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12553

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 atatatcgag acgctcgaaa ttgaataatg gaagctattg agcaattcca atggtcataa 120
 cttttaactc ggaagtccga ttgaggcaca taatatattg agacgctcga aattgaacaa 180
 cggaagctct cgagaaattc aaatggteat aacttttaac tcggagggtcg gattgagacg 240
 cataatatat cgagacgctc gaaattgaac aatggaagct cttgagcaat tccaatggtc 300
 ataactntta actcggagggt ccgattcagg cgcataatat ctcgagacgt tcgaaattga 360
 acaatggaag ctcttgagca attcaaattg tcataacttt tcaactc 406

<210> 12554
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12554

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 atatattctg aacaaaaactc aatagcttcc tcagcaacgt atctttcaac aatgctagcc 120
 tcttgctgat atatcaattt ttgttatatc ctttcaagac cttcatgtaa cgttcaactg 180
 gatacatcaa gcgtaaaaac acaggccac acaaccgaat ctcaagtaca agatgaacaa 240
 ttaagtgaac catgatgtca aaaaacgatg gaggaaaata catttctaata tcacacagga 300
 taatggctgc clcat 315

<210> 12555
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12555

agcttaagat atctctntat ggacttaaac attctccgat gcaatggtat ggtagactta 60
 gaaacttcc tcttgaacaa aaatttgaga gaggaaaagt tgataaaaca catttcatta 120
 aaaagttctc tcataacatt ntactcatgt aagtttatat ggatgacatc atttttgggt 180
 ctactaatcg atctctttgt gaagattttg tacacaagat gcaggaggag tttgaaatgc 240
 caataatggg ggggggggatt aaattacttt cttgggtctct atgtgaagaa aattgaccat 300
 ggaacatttc tctatcaaac atagtattgc aaagaacttc tcaagaagnt taagatggac 360
 aaaagcaagg aggatgaaac tctatggct actaattgct accttagtgc agatgaaaat 420
 g 421

<210> 12556
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12556

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aattgaacaa cagaagctct tgagaaattc atatgggcat aagctttcac acggatgtcc 120
gactcaggct tataatatat cgacacgctc gaaattgaac atccgaatct ctgcgaaat 180
ttatatggtc ataacttttc aactgatgt ccaattcgcg cgcataatat gtcgagagggc 240
tcgagattga acaacggaag ctctcgagaa attcacatgg tcataacttt tcacatggat 300
gttccaatcg ggcgcat 317

<210> 12557
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12557

agttggaagc catctttctca atcaaattct ttatccttag cacgagagac atatcaccaa 60
gggctccacc actggcagca tcaatcatac tcctctccat gttgctaagt ccctcataga 120
aatattgaag aaggagttgc tcataaatct ggtggtgagg gcaacttgca cacaatttct 180
tgaatctttc ccattactca tgcaagctct ctccactaag ttgtctgatg cctgaaatgt 240
ctnttctgat ggcagtggtc ctagtagcaa ggaagaatct ctccaagaac accctct 297

<210> 12558
<211> 115
<212> DNA
<213> Glycine max

<400> 12558

tagacataac tattcacacg gatgtccgat tcgggcgcat aatatgtcga gaggtctgaa 60
attgaacaac ggatgctctt gataaattca actgggtataa cttttcacac ggata 115

<210> 12559
<211> 358
<212> DNA
<213> Glycine max

<400> 12559

tgtagggtta aagtctcacg attgtcacgt gttgatgcat caattgttag tcgtggctat 60
acgagacctc ttgccaaaca aagtcagggt agccataact cgctgtgct ttttcttcca 120

tgccatatgt agcaaagtca ttgatcctgt caagtttgat gagctggaaa ataaggccgc 180
aattatactg tgccagttgg agatgtatgt tccccctgcc ttcccttgaca tcatcattca 240
cttgattgtg catctcatca gagaaatcaa atgtttgtgt cctgtttatt tgtgatatat 300
gtactcggta gagcgatata tgaagatctt aaaaaggat acgaagaatc tatatagt 358

<210> 12560
<211> 361
<212> DNA
<213> Glycine max

<400> 12560

tcacttaagg taagggggat ttttccactt cttgatcctt aacctttttg tctagcaaaa 60
tttatgtata aaacaagttt aagggtcttt gtaggattaa agttactttg gatatgttgg 120
atcaagtggc ctctgaataa ttaagaaggg gggttgaatt aattattact gaacctttac 180
taattaaaaa tgtacccttc ttaggctttt actataatgt taagaaagta aataacagaa 240
atggaaactt aacccaaaagt aaaagcaata attaaagtgc acaacggaaa ataaagagtg 300
tagggaagaa gaagacaaac acaagagttt tatactgggt cggcaacaac cctgcctac 360
a 361

<210> 12561
<211> 372
<212> DNA
<213> Glycine max

<400> 12561

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tcttctatgt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatatgt tgacttcac tcttttggag 180
gatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttaa cattgaatcc ttcacacac aactgactga tgetgatcaa gtttgcagtc 360
agttccttca cc 372

<210> 12562
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12562

agcttgctaa cccatggaat ctctaatat ctcccacact ttttggggtg ggccattctt 60
 ggatggcctt gattttctca ggggtccactt ggaccccat tctaccaact acaaacccta 120
 agaaaactat attatctaca caaaaagtac atttctctat atttacatag aggggtgtttt 180
 tcttaaggac tgaaagaact tgcctgagat gtcttaagt atcatctagg cttctactgt 240
 acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
 gatgcataag ccttataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
 attcatacaa accaaacttg gtcttgaaag g 391

<210> 12563
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 12563

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 atttctcgag tgcttccgtt gtttaatttc aagcgtctcg atatttatgt cctcaaata 120
 aacatcgag cgaaatgtta tgaccattcg aatttgctga gagcttccgt ttttcaattt 180
 cgagcgtcta gatgagttat gtcaccgaat cagacatctg agtgaaacgt tatgaccatt 240
 cgaatgtgtc gagagcttcc gttgctcaat tttcagcgtt tagatgagtt atgtcaccga 300
 atcggacatc tcggtaaaaa gttatgacca ttcggctttg tcgagagctt ccgttgctca 360
 ttttcgaccg tcttgatata ttat 384

<210> 12564
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 12564

ttcagtaact ttcttatttt atgtctttta tgcacgatac cacattgcct gatcaggctt 60
 tatgaagggt atatgtcttc taagactgaa aaaagcaggc tgcccaaagc aacagaagag 120

acaagttaga ctagaaaactc ggatgaaaat ccattaaaat ttgcaggagt tgcaataaca 180
 tgtctaataga atgtttatat caaacaacca catggaactg tattagcaat gtccaacatt 240
 caggaaaatt aataaccaaa tacctttcca tctcccaatg atggggttga gattatgtca 300
 gaaagatgaa tacgatcagt gtacactgat ctaatcccat tgtagatat tggacttgaa 360
 ccagag 366

<210> 12565
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 12565
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 ggctcaagaa gaaaagagaa gagcttcttt ttgctttaca agaggctgag agaagatatg 120
 atctggctag agctgcagac ctgcgatatg gagcaattca agagggtggaa actgcaatac 180
 aacaacttga agggagcact gaagagaatc tgatgttgac tgaaactgtt ggaccggagc 240
 aaatagctga ggttgtgagc cgctggaccg gtataccagt tacaaggctt ggccaaaatg 300
 aaaaagaaag attgattgga cttggtgaca gattgcacag cagagttgta ggacaagacc 360
 aagctggtaa tgctgttgct g 381

<210> 12566
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 12566
 agcttctcga tatatTTTT tgtctgaatc agacatctga gtgaaattta tgaccatttg 60
 aatttctcga gagcaattgt tgcccaattt cgtgcgtctg gatataattat tccctgaat 120
 cggacatctg agtgaaaagt tatgaccatt tgaatttctc gagagcttcc gtttatcaat 180
 ttcgagcatc tatatatatt atttcccgga atctgacatt cgtgtgaaaa gttatgacca 240
 tttaaatttc ttgagagctt ccattgttca atgtcaagcg ttctgatatg ttatgcgcct 300
 aaatcggaca tccgagtga aagtcaggac aatttgaatt tctagagagc tt 352

<210> 12567
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 12567

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ttcaattcca aaagcaacat gccacctgga aaagagtttc acatttctaa gtaactatgg 120
ttaaacacaaa gctaagccat tatgaagatt caatatgaat tgaaaaatcc aaattcgaga 180
gaagtgttag taagaccaac catctagatg ccaaggtact ctacaacgtg cacaatgtac 240
aagatcaaag aactgctgg gaaatggtag cttttgagaa cccatgacag cagatatggc 300
aggaatccct ctttcaagag caaattgcac ttgtgcttca tgttcatctt taggtgcaaa 360
agacattgca ataacatctc tt 382
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<210> 12568
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12568

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tatagtcatt acttggtgag aaccataatc taaagnngtt tgttcctttg atatagtaaa 60
taatttgttt tgtggccttg agatgagtag tgggtggagt ctccatgtat tgactgatga 120
gtcgagtacc atatagaatg tctgggtcttg tggacgtcaa atatcacaaa ctaccaccca 180
aactcttgaa attttagca cccatctttt ttgcttcgtc aaactttgat aacttcattt 240
tgcactccac cygtattcca attggcttgc atagttttgc tatgaaatga agattcaatc 300
ttccttttgc ttacctcaa taccaagata gtatgacatt agtccaatat cggtcattctt 360
gaactccttg ac 372
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<210> 12569
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 12569

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tcaagcttgc tcacccatgg aagctcctaa tatcttcac actttttggg gtgggccatt 60
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cttggatggc cttgattttc tcatgggtcca cttggacccc atttctacca actacaaaac 120
 ctaagaaaac tatattatct acacaaaagg tacacttctc tatatttgca tagaggggtgt 180
 ttttectaag gactgaaaga acttggtctga catgtcctaa gtgatcatct aggtcctac 240
 tatacactaa aatatcatca aaataaacia ctacaaatct acctatgaaa tcccttaaga 300
 catgatgcat aagcctcata aaagtgttg gtgcatcact gagcccaaaa ggcatcacta 360
 gccattcata caaacca 377

<210> 12570
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12570
 tgccctcaaag aggtccagga aggacaattt tgccgaatta tactagttcc gctccggagt 60
 atgacaatca ccgcttttagg agcgctgtac accagcagcg ctccgaggcc atcaagggat 120
 ggtcgtttct ccgggagcga cgcgtccagc tcagggacga cgagtatact gatttccagg 180
 aggaaatagt gaaattctga tacagaggtc agatgtcgta ccagatgtca cgacatcacg 240
 cttcagaaca tggagattat atttgactgt atgaacatat taaacaagta aataacacia 300
 gagaattgtt aaccagttc ggtgcaacgt cacctacatc tgggggctac caagcca 357

<210> 12571
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 12571
 agctttcgtg aaattgttat gtcataaccc ttcacacgga tgtgcgattt aggcgcataa 60
 tatatcgaga cgctcgaaat tgaacagcgg aagctctcga gaaattaaaa tggtcataag 120
 ttatcacacg gaggtccgat acaggaacat cacatatcga gatgctcgaa attgaacaac 180
 cgaagctttc gtgaaattga aatggtcata acccttcaca cggatgtccg attcaggcgc 240
 ataatatatt atagaactct tgaactgaac cgaggacttt tttt 284

<210> 12572
 <211> 350
 <212> DNA

<213> Glycine max

<400> 12572

tatgctgcat acatctacaa ttgaccactt taacctcagc agcaaaatca gccacaacaa 60
aataattatg acctctccag caacaggtac aatcctaggt ggaggaatca tcccaacett 120
agatggcgga atccttcaca acagtagtag caacaacaac agccttattt tcaaaatgct 180
gctggccgaa gcaaaccata cgttcctcca ccaatccagc agcaacaata gtaacaaccc 240
cagaaacaac aaacagttga ggctcctcgg caaccttccc ttgaagaact tgtgaggcaa 300
atgactatgc aaaacatgca gtttcaacaa gagaccagag cctccattca 350

<210> 12573

<211> 346

<212> DNA

<213> Glycine max

<400> 12573

tgcactgccc ttagtggaca atcttcctta aaacggtgaa gccaccattg atgtccctta 60
tgatgtcggt cagtatctca aaaaagccta cgatgatttg gaagaaccct tgacctgttt 120
tctcaaatct tccaaagttg attggcattt ctatgacca tatatgttac agttaccaa 180
aaggttcaaa gagaaaacca aatgggtgtgg aatagtaagc cccggttggg caccatagtt 240
gaaggatttg agccacaagg cagttgggtg ggttttgact cactctgggt ggacctctgt 300
ggtggagggt gtttagaatg aaaaacctct attttggtta tgtttc 346

<210> 12574

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12574

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ctttcaaaaa atccgaaatt gcattctgga gaaaaatata tagaaattaa acatcattgt 120
ataagaaatc atgttcaaaa tgggagagtg gacttgcagt ttgtgcccac tgattatcag 180
ctttttgaca tctttacaaa acgattaact gaggaaggt tgattttggt aagaagtcaa 240
cttggaatga tctttattaa tgatttattt aatctctata tgatcatccat tgttgcattc 300

aaggatatat cgtccactag acttaaacac acactcataa cattcaataa atggacaaca 360
tatcatgcat taattntttt tttttat 387

<210> 12575
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12575

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cagcataatg aagaaggaag aaagatgatt ggagatgcct cttcaaggag aagatgagtc 120
aaaaagaaac tcaccaccat agaaagccat ggataagagt ttgaaggtag gagaagatgt 180
gtggagggag agggagagaa ggagcatgaa attttgtgcc tcaaatgaga tctgaacttt 240
gaagtgtaat tctaaaatga tcaaatttga acaaatgcac acacatggcc tttatttata 300
gcttaagtgt cacacaaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat 360
ntgaaattga att 373

<210> 12576
<211> 384
<212> DNA
<213> Glycine max

<400> 12576

agcttagatc aaaagataat tactttgaaa ttattatata tacagcaaca gctaccaggt 60
ctcaacattg catggcacca ggcaggttca gcatacaaaa tatgctgcaa acaccctgat 120
ctccacatga attgaatggtt agaacacata tagttgtgta ggagtccagg gaactaagca 180
attctattct agttatctct atccttgtgt tgttcattat cttcaaaca gtcctctggg 240
gggtcgtaga tgatcatacc tgggaaaatc tctaagaagt cgtcgtcttt tattttctct 300
cttaattctg gataggggaat gagccctttt aatatcacgc gaaaaggcaa tgaaagggga 360
ggctcaagag actgtctcat ttct 384

<210> 12577
<211> 374
<212> DNA

<213> Glycine max

<400> 12577

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cagaaaatat tctcaacagt cacatctttt tatttggttc ttgaatggct atcaaaggcc 120
tatatatatg tgacttgaga cacgaatttg ctaagagttt ttcagaacaa aaaggtctta 180
tctctttaa aagcaaaatc gttttatcct cttaaaaatt ccttggccaa aacacttggtg 240
attcaataag gaattatttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt 300
acttcttctc ttcttcttta ttctgaaaaa ggattaagag accgaggggtt tcttggttga 360
aagaaatctg aaca 374

<210> 12578

<211> 356

<212> DNA

<213> Glycine max

<400> 12578

agggtcfaat tttcttaatc agtttgata atagcttcac ctttttggca tgttttggga 60
ggaacttgga catggatgct agcctgccat tcaacttata aacttcttgg atgtaatttg 120
ggttgcgcac ctctagtatg gcagtgcatt tgtcggggtt ggcttcaatc ccccgatgtg 180
tgatcatgaa gtcaggggaa ttgtctttgc ctaccccaaa agtacatttc cctgggttga 240
agcacatgtc atatttggtg agttctccaa agacttcttc caggaccgcc acatggttgg 300
gtatgctctg agacttgaca accaagtcac acacatatc cttgacgtta tgtcca 356

<210> 12579

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12579

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gagccctgct gcgctactta tattcttccct ctcgattatc atatccttca ttcttacatc 120
atgagtgaac aacaacaaga tcaatcactt aatgtacaca gtccttatta cctttatctg 180
ggagaaaatc cagcgatagc tttgggttct tcggttcttg attcatccaa ttataattca 240

tggagtcgat ctatgcttat tgcattaagt gcaaagaaca aatctgagtt tgtcgatggt 300
 tttattcaaa gacctgcac agatcatgca cttcatgcag cttggaagag gtgcaataa 359

<210> 12580
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 12580
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 agttattgtc gtttgagttg gctcagaggt tcaacattca atttcgagcg tcccgatata 120
 ttacggcact gaatcggaca tccgagtaaa aagttattgt cgtttgaatt ggctcagagc 180
 ttcaacattc aatttcgagc gtatccatat attacgggac tcaatcagac atccgagtaa 240
 aaagttattg tcgtttgaat tggctcacag gttcaacatt caatttcgag cgtctcgata 300
 tattacggga ctcaatcgga catccgagta aaaagttatt gtcgtttgaa ttggc 355

<210> 12581
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12581
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 atatatcgac acgctcgaaa ttgaatgttg aagctctagg cctattcaaa caacaataac 120
 gttttactcg gatgtccgat tcagtgcagt aatatatcgg gacgctcgaa attgaatgtt 180
 gaacctctga gccaaactcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 tatttatatcg agacgggtcaa agttgaatgt tgaagcttta agccaattca tacgacaata 300
 actttttact cggatgtctg attgagtctc gtaatataac gaaacgctcg aaatngaattg 360
 ttgaagcttt gagccaat 378

<210> 12582
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 12582

tttcactcgg agatctgatt cagggcgata atatatcgag acgcttgaaa atgaacaacg 60

gaagctctcg agaaaattcca atggtcatta cctttaactc ggaggtctga tttaggcgca 120

taatatatca agacgctcga aattgaacaa cggaagctct ctagaaattc aaatgggtcat 180

aacttttcac tccgaggttc gattcaagtg catgatatat ccagacgctc gaaattgaac 240

aatagaagct ctcgagaaat tcaaattggc ataaccttta actcggaggt ccgatttagg 300

cgcataatat atcgagacgc tcgaaattta acaatggaag ctcttgggca at 352

<210> 12583

<211> 355

<212> DNA

<213> Glycine max

<400> 12583

tccttaagaa gattcctatt gaagctagtt cttagctaca catacctctc taatagctaa 60

gtcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120

tcacccccat gacaaaaaac atgaaaataa aaaaaaagtc cttattacaa agacaactct 180

aaatgccccg aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc 240

tagacgaagg aaaaacctat tctaattttt acaaagataa gcgggctcat acttagccca 300

tgggctcgaa atctacccta aggctcatga gaaccctagg gccttttctt ggatc 355

<210> 12584

<211> 361

<212> DNA

<213> Glycine max

<400> 12584

tcctcatca tgaaattttt ctttcttgta acatcataag tgagaacacc attccacaac 60

tttttcagat catcaatcaa aggttgtaaa taaacatcaa taccaattgt tggattaaat 120

gggttaggta cgacacaact cacaacata taagtttttag tcatacatat ttctagagga 180

agattgtatg gggttaacaat gattggccaa taagaataag gtgaagacga tgcttaata 240

tatgggttaa atacatttgt gcataaacca agtcgcacat tttgcgtatc aatagaaaaa 300

tctggatgta cccgttcaaa gtgcttccag acttcatagt tagagggatg acttaacatg 360

<210> 12585
<211> 378
<212> DNA
<213> Glycine max

<400> 12585

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aatttcccgga gagcttccgt tgttcaattt ctagcatctc gatacgtat gtgcctgaat 120
cggacatgcg agtgaaaact tatgaccatt tgaatttctc gagagcttcc gttgttaaatt 180
ttctagcgtc tcgatacgt atgcgcctac atcgaacatg cgagtgaataa gtttaatacca 240
ttttaatttc tcgagagatt ccgttagtca atttcgagcg tctcgatatg ttatgcgcct 300
gaatcggaca tgcgcataaa aagttatgac tattttaatt tctcgggagc atctgttggt 360
caatttctag cggttcga 378

<210> 12586
<211> 386
<212> DNA
<213> Glycine max

<400> 12586

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acctctcatc tttagtggag tgggttacca ctactggaaa acccgcatgc aaatctttat 120
agaggcaata aatttaatat ctgggaagcc atagaacaag gaccttatgt tccctctata 180
atagccggaa gtgcaacaat agaaaaacct agagcagatt ggactgagga agaaagaaga 240
ttagcacaat ataatttaaa ggccaaaaat attattacat ctgccttacg aatagatgaa 300
tactttaggg tttcaaattg taaaagtgt aaggatatgt gggatactct acaagtaaca 360
catgaaggca caacatatgt taaaag 386

<210> 12587
<211> 384
<212> DNA
<213> Glycine max

<400> 12587

agcttataga atagtgtacc aaactatcgc tgctccggcc aagctatctt ggaaaaagtg 60
tattaatagc ttctcatcct tagagtgcgc gcccatcttg tgacaataca tcttgagatg 120
gtttttggga caaacgggtcc ctttatactt gtccaagtct ggcaccttgg attttggggg 180
aataacaaca tccggtacta agcaaagatc catcatgtcc gtgaacggat agtcacaaaa 240
gccttcaaca gccctcaatc tcttctcgag gagatcgagt ttctttcttt cttcgggcgc 300
tggggggtgt ccttccgcgg acaaaaatat tggctgtgct gtgaggttgt gttgaggcaa 360
tgtgtcgagt gtccgcccct ctac 384

<210> 12588
<211> 352
<212> DNA
<213> Glycine max

<400> 12588
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tgtgtctctg aaactgagtt ctatttatgg tggtaatctt aacaggcgac aatcaggcag 120
ccagtattca agaacatgat gaaagccctg tattttcagt ttactgttgg agttctgcca 180
ttatatctgg taacctttgc aggatactgg gcttatggat cttcaacagc tacctatttg 240
aggagtgatg tcgatgggtcc agtttgggct aaggctatgg ccaataatgc agcctttctt 300
caatcagaca ttgcattgca tgtagtaact tctaaacttc aatttagagc ta 352

<210> 12589
<211> 252
<212> DNA
<213> Glycine max

<400> 12589
taacgataac tcgcctgtgc tttttcttcc atgctatatg tagcaaagtc attgatccag 60
tcatgtttga tgagttggaa aatgaggctg taattatact gtgctagttg gagatgtatt 120
ttccccctgc tttctttgac atcataattc acttgattgt gcactctggc agagaaatca 180
aatgtttgtg tctgtttat ctacgatgga tgtaccgggt tgagcgatac atgaagatat 240
taaaagggtg ta 252

<210> 12590

<211> 381
 <212> DNA
 <213> Glycine max

<400> 12590

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agcttgtacc caccagtact atgatagccc agcataatca tttgttcacc ctttttgtcc 60
agttttcttc ttaattgatt tggaacatgc ttgaagcaca agcatccaaa cacccttagg 120
tgcttgagac aaggcttact tccactccaa gtttcttcag gtgtcacatt ctctagcctc 180
tttgttgaac atctgttgag cagataggct gctgttgaca ctgcctcacc ccaaaactcc 240
tttggcaagt gaaaattcct tagcatacac ctgggtcatgt tgactatggt tctattgagt 300
atctcaaata caccattgtg gtgtggtgca tatggagggtg tgatcttatg aatattaccc 360
tcctctcat agaatttctt g 381

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<210> 12591
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12591

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agctttgagc ttacccttat tcctcttgct taagttgaac acaacatgac tgaagatggt 60
tgttggacaa gtggtctcaa taacttaaga ggggggtgaa ttaagtttca aaattttccc 120
actaacaat tttaaccccc ttttaaataa tatatgatag gtcagaatg caaaagaaga 180
agaagtaatc aatttaataa tggtctttta actgtgcaag gcaaagtaaa ctgcaataaa 240
ataaccgaga taagggaaga gagaaatgca aactcaattt atactgggtc gaccacttcc 300
catgcctaca tccagttctc aagcaactca cttacgattt tccactatct ctataaatcc 360
tttacagtct ttgaacacac tgaagtgt 388

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<210> 12592
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12592

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tcctcattcc tgtcaagcct tcaacaacca agtcaaacaa tagagggcca aaggatccct 120

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ttgtctcaaa cctctttgag gcttaaattc agaggttgag cttccattca ctagaataga 180
tatagaggct gatgtgaggc accccttaac ccaccaatc catctgtcat ggaacctcat 240
tcttctcatc atatgaaaaa ggaattgcca agacactaaa tcatatgctt tttcgaaatc 300
cacttttaac accaagcagg acctcttaga cctctagcc tctcaagta cctcattagc 360
aaccaaaaca ccatggagca actgtctatc cttcaciaag gttgtctgcc ttt 413

<210> 12593
<211> 379
<212> DNA
<213> Glycine max

<400> 12593
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ctatatgaga catcttgcca aacaaagtca ggtagcgat aactcgcta tgctttttct 120
tccatgctat atgtagaaag tcattgatcc tgtcaagttt gatgagttgg aaaatgaggc 180
cgcaattata ctgtgccaga tggagatgta tttccccct gctttctttg acatcatgat 240
tcacttgatt gtgcatctgg tcaaagaagt caaatgttgt ggtcctgttt atctacggtg 300
gatgtaccgg attgagcgat acatgaagat cttaaaaggg tatacaaaga atctatatcg 360
tccagaagca tctattggtt 379

<210> 12594
<211> 350
<212> DNA
<213> Glycine max

<400> 12594
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aaagatacat ctaataatac ccataattat aacactcccc ctcaagctgg agcatataaa 120
ttatatgcac caagcttgga acatataaac tgaattctag gcccccttaa ggatttagtc 180
aaaatatctg ctggctgac attggaatta atgaattcag tgacaatctc tttagacagt 240
agcttctccc gaataaagtg acagtcaatc tctgtgtgct tggttctctc atggaagact 300
ggatttgaag caatatgaag agcagcctga ttatcacaat acagcttcat 350

<210> 12595
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12595

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 gatgtcgtac cggatgtcac gacatcacgc ttcaaaacat gcagattgta ttgactgta 120
 tgaacagatt aaacaagtaa ataacacacg agaattgtta acccagttcg gtgcaacgtc 180
 acctacatct gggggctacc aagccaggga ggaaatccac taaaatagtg ttagttcgaa 240
 gatctaacag ccactgttta caaccttctc acctaacac taccctgtga acctctacct 300
 aagagccact cttagatatg agaaccctc tcaactcctc tcaaacactc tccctgtgtt 360
 a 361

<210> 12596
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 12596

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 gccatcatct tttcaagttt ggctttctca tcaagtgtt ccaccaggcc ctgctgaaca 180
 agaagagctc tcattcttcaa tcgccataac ccaaaatcat tttgccctgt gaatttttca 240
 acctcatact tggccgagtc cttttcttga atcgaactca aaaatcgctc cagctcacc 300
 gcaccaatth gttgtgccaa gatcagattt tagttcaca aagaatgagt ttcttgtatg 360
 aacaagaata agcaaaatgc agaaaagaa 389

<210> 12597
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12597

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gttgccaatc atgtaatcat aatctttttc taacatactt agactagaag gtagagacga 120
 ttcttccatc aggtctttta aataggtcaa accatctaca aacaaaggga taataaacat 130
 cagttagaga gatcaagtat tcttgatgca taaataataa taacacaatg aaaatgaacc 240
 ttctatgata ttctctaggt ttctgggttc acattcagat gccaaagcaag gctgcttctt 300
 caatatatct gctattacat tattgggttt ctccatgggt ttcttcaact catcttc 357

<210> 12598
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12598

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 ttttatgagc aactcaggat tcaacagatg tgacatggac cattactgct atgttaagaa 120
 atatactaag agttatgtta tctttgtcgt gtatgttgat gacatgttga ttgcaggatc 180
 tagtatggca gaaattaata tgttgaagta gcagttggca gaaaactttg aaatgaagga 240
 tcttgggtcca gctaaacaaa tcttaggtat gagaattctt agaaacagat cagaaggaat 300
 ttggaagctg tctcaggaga aatatatact caagttgctt gacagggttt accttga 357

<210> 12599
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 12599

tttaatggaa gtctgatct tgaaactgtt cggacttcgt taactggtga gcagggtctt 60
 cagcgggttg aacaccttaa tattgtatct ggaaagaccc agaagaagga taaaagtaag 120
 agttgcatat ggaagaagag gtccattttc ttgatcttg cgtactgggc tgatctaaat 180
 gttagacatt gtattgatgt tatgcatgta gagaaaaatg tatgtgacag tgtcattggg 240
 acactcctta atattcaggg caagacgaaa gatgggtctaa ataccgtca agatctatct 300
 gacatgggta tacgatcgca gttgcatcca aggtctgatg gtaaaaaa 348

<210> 12600
 <211> 410
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12600

ttagaaaatc cctcaatgga atttctataa tagccagcca acotcaagat acgttgaact 60
tctgttgag ttgtcgggtg ttgccactcc ataaccgact ccactttaat cggatccacc 120
gcaaccccat ctttagaaat cacatgttcc aagaactgca ctttttctaa ccaaaattca 180
cattttgaca agttggtgaa caatttctta tccctcagga tatgcaacac aattctcaag 240
tctttctcat gctcctgctt attcctctga tacactagga tatcatcaat gaacacaacc 300
atgaactgat ctaagtaatc atgggatata cggttcatat agtccatgaa gatagccgga 360
gcattagtca ctccatattg catgactana tactcataat gcccataccg 410

<210> 12601

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12601

ttcaaaatct tttgaaattg aatgtgatgc ttcaacatgt gggattggag ctgtattggt 60
acaagaaggt catccaattg gcttatttag tgaanaatta agtggtccta cccttaacta 120
ttctacttat gataaggagt tgtatgcctt agttagagcg ttgaacacat ggcaacacta 180
tctttatccc aaggagcttg tgatccatag tgaccatgag tccctaanat acttacaagg 240
acaaggttaag ctaaataaaa ggcatgccaa atgggtggaa tttctcgagc aatntcctta 300
tgttattaaa cat 313

<210> 12602

<211> 381

<212> DNA

<213> Glycine max

<400> 12602

tgtcagtctt gttgttcata cttcacttag agcttcagct attgaagatt ggtacctaaa 60
tagcggctgt tccatacaca tgacaggagt taaagaattc ctggtgaaca ttgagccctg 120
ctccactagc tatgtgacat ttggagatgg ctctaaagga aagatcattg gaatgggaaa 180

gctagttcat gatggacttc ctagtctgaa caaagtactg ctggtgaagg gactgactgc 240
aaacttgatc agcatcagtc agctgtgtga tgaaggattc aatgtaaact tcacaaagtc 300
agaatgcttg gtgacatatg agaagagtga agttctaatt aagggcagca gatcaaagga 360
caactggtag ctatggacac c 381

<210> 12603
<211> 501
<212> DNA
<213> Glycine max

<400> 12603
agcttgcaat ttaatgttcc tgtcacaccg aatatattat attgcatgta tgtataatga 60
aacttttagag agaaagcagg gggatataaa atgaatatgc cactttatta taaagctttc 120
tcataatgtc acaggcaaag attacttcag caattaacta agtcaaaaac tctttctttt 180
ctgttttggg tgaagaagaa aaaagtcagt taatgataaa ataccatgct gcattatgat 240
catcagagtc tggacacagc ggtggctcat tctttgaacg ttgctcgtaa cactcattag 300
aagttggctt cttgatacag ctacacctac tccatttact tgatccttgc tgatcgacac 360
aacttcccac cacatggctt ttgtagtgtc ttcattggctg ccaataaatt cataacacat 420
caggattaaa aacctacatt aaaagcacia gagtgccata tataagtcta gctataatta 480
cccttcttat ttaacatctt c 501

<210> 12604
<211> 327
<212> DNA
<213> Glycine max

<400> 12604
cctgtctcaa aagtctatgg agtatgctcc tctgccgacc accacacaga tcttttccct 60
tctctgcaac aacctggagc aattgagcat cttgaagctc atgctgcaaa cattgaccac 120
agacctctc tagctcagct tcagaataaa ccacggcaga gcaattatga cctctacagc 180
aacagatgca agaccggatg gatgaatcac cctaattctca catgggtctag ccctcaacag 240
caacaacagc agcctgctcc ttcctttcag aatgatgctg gcctaagcaa gccatacatt 300
cctacaccaa tccgacaaca gcaacag 327

<210> 12605
 <211> 520
 <212> DNA
 <213> Glycine max

<400> 12605

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gctttgaatg ctctattcaa tggagctgag aagattatct tattactgat caacacatgc 60
acagaggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctctatagtg 120
aagatgtcca gattgcaact attggctaca caattcgaaa atctgaagat gaacgaggaa 180
gaatgtattc atgacttcca catgaacatt ctcgaaattt ccaatgcttg cactgccttg 240
ggagagagga taacagatga aaagctggtg agaaagatcc tcaaatacctt gcctaagaga 300
tttgacatga aagtcactgc aatagaggaa gcccaagaca ttgcaacat gagagtggat 360
gaactcattg gttcccttcc aacctttgag ctaggactct tcgatggggc tgaaaagaag 420
agcaagaact tggcgttcgt gtccaatgat gaaagagaag aagatgagtt tgacctggat 480
actgatgaaa ggctgaccaa ggcattttgtg ctcctttgga 520
```

<210> 12606
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12606

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tacttattnt acttagttgg aattgattct ttgtgatcct taatggtttg atgagtcttt 60
caatatagtt tgataataat gtgaaattgg tttatcattg tggatgggat gattgatttt 120
tytttgctac aacaaagaga taatgtagtt gacgagttga atactcgtag tatatatattg 180
tcgtttgcta caacaaagag ataatgtagc ctatggttca aatactcata gtatatattt 240
ctcgtttgct acaacaaata gataatgtag cctgagtcaa atactcacia tatattattt 300
gtttgctaca atgaatagat aatgtatcat atgagtcaaa tactcatagt atatatattt 360
tccatttgct gcaatgaaga gataacanag tctatgagtc caatactcat aatatatacc 420
atttnnttct ctacat 436
```

<210> 12607
 <211> 393

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12607

tctatagaag gtcggttcc t aatttctcta caatggcatc tcccttcaat gagctggtga 60
agaagaatat ggcatttacc tgnngtgaaa aacaagagca agcctttgct nttctcaaag 120
aaaagcttac taagggcacc tattctagct ctctctgaat ttctaaaact tttgagctag 180
aatgtgatgc ctctggtgtg ggagttggag ctgtattgtt acaagggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgcc a cctcaacta cccacctat gataaagagc 300
tntatgcctt aataagagcc ctccaaactt gngaacatta ccttgtttcc aaggaatntg 360
tcattcatag tgatcatcaa tcacttaagt aca 393

<210> 12608
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12608

accatttntc atagtaaaac actggtnatg tgtctactat tattgtgata atntctttct 60
ccatcattgg aggtgccact tgagctgcc a ggtctctcca cctttgggag tattctttga 120
aagattcatg cccctttttg cacatgttct gtagttgcat cctatccgga gccatatcat 180
aattgtactg atactgccta acgaaggcaa tcattatgtc ctccaagaa tggactcggg 240
aaggttccaa gttggtgtac caggtaacag ctacccagc aagactntct tggaaaaaat 300
gtatcagcag ttctcatct tttgcgtatg ccncatctt ccgacaatac atcttttagat 360
ggttcttggg gcaagtagtc ccattgactt gtcaagtct 399

<210> 12609
<211> 459
<212> DNA
<213> Glycine max

<400> 12609

gagtctatgg tctatgttct tctacagatc tctgttcttc tttgcagcaa tctggagtca 60
atgagcaact tgatgcttat gttgtaaaca tttataatag atctctcaa caacaaaacc 120

aacaacaaca gaataattat gatctttcaa gcaacagata caatccaggt tggaggaatc 180
atccaaattt gagatgggca agtcctccac aacaacatta gcctgtccct cctttccaga 240
atgctgctgg tccaaggaag ccatatgttc ctctccaat acagcagcaa caacaacaac 300
agtcataaca aagacaacaa gtaattgagg ctctcctca accttcttta gaagaagtag 360
tgaggcatat gaccatccag aatatgcaat ttcagcaaga gacaagagcc tccattcaga 420
gtctgaccaa tcagatgggg caaatggcta ctcagttga 459

<210> 12610
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12610

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tgaaagacaa gagcaagcct tttctttgct caaagaanag cttactaagt cacttggtct 120
agctcttcca gacttttcta aaacttttga gctagaatgt gatgcctctg gagtgggagt 180
tgagagctgta ttgttacaag gtgggcacac tattgcttat tttagtgaaa aacttcattg 240
tgccaccctc aactacccca cctatgataa agagctttat gccttaataa gagccctcca 300
aacttgggaa cattaccttg tttccaagga atttgtcatt catagtgate atgaatcgct 360
taagta 366

<210> 12611
<211> 459
<212> DNA
<213> Glycine max

<400> 12611

cctttctttt tcttggcatt ttcttcattg tgatttagtc tcatgagttc cattttgtgt 60
tcttgaaact ttccaaacaa agttgcaaga gacatgtgca taagatctct tgattctata 120
attgtcatta cctttgggtg ccattccctg cttaaacatc ttataacttt gtttaataaaa 180
tcttcattgg gaaatatctt tctaatgat gcaagatgat ttactatatg tgtgaatttc 240
ttttgcatat cctgtatagt ttcattttga ttcattctaa acaatttata ttcattgggtt 300

agggtattta ttctagatct ttttacatat gttgttcctt catggggttac ttgtaaggta 360
 tcccacattt cttttgcatt cttgcagggt gatactctaa aatattcatc cctgctaata 420
 gcagatgaat tatatttttg gctttaagtt atattgacc 459

<210> 12612
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 12612

aagagctttc gttgttcagt ttcgagcgtc tcgacataag atgcgcccga atcggacatc 60
 cgggtgaaga gatatgagca tattaatatc tccagagtat ccgatgtata acttccagcg 120
 tatcgatata atataagctt gaatcggacc tccgtgtgaa aagatatgac cattagaata 180
 tctcgagagc tttcgttgta gaatttccag cg 212

<210> 12613
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 12613

aaaacatctc tctgccgaag ttgctgccat gcacagtggt acagtcgtcc aaaaaatccc 60
 tgagatcacc gttcgtcgta gacacaatct gcatacgacg atcacgtcgt accgactatg 120
 gctatccgct tcatcaccta taatgaatat cttttacatc atcaactata taaattatta 180
 caaattgtcc aaactaacta ttcatagtgg atgaattata tctaaaatgt ataaggcata 240
 atctacgcag agatgcaccc tgacttttaa ttattgataa ttgctgtaac aagatattca 300
 tatgcaagtt gaaactaaca atattaacaa ttatagattg aaagagataa acagcacggt 360
 aaagcagcat ctctatatct atctatatat atatatagat ggcatatgac ctctctatat 420
 atctatatat atataaatcc caagcgtgcg ttcggagcct gacttaatat atgggg 476

<210> 12614
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12614

cctctcaagc attngatcca tgaaggggaat aggaaagtng gtatttggtg ttgccttggt 60
gaggaggcag taatcgatat acattctcca actgggtcatg gtccttacag gaattagctc 120
attcttgtea ttctttatca ctattattct acccttggtg gggactactt gcatggggat 180
tacctatgaa ctttcaaaaa tggcatatat cattccagct ccaagaagct tcagtacttc 240
ttttcgaact tcctctttca tcaccaggct gagtcttctt tgtgggtgtg ctactgggtt 300
gaagtctca tcattgtgca tgcaaataaa tggacatatt cctttgaggg tgaagaattg 360
tcctcctaag gcttgtctgt gcttcttttag tacctccact agtctcttct cttcctcttt 420
gtgcaatgtg ctactaatga tggctaagtt ctca 454

<210> 12615
<211> 441
<212> DNA
<213> Glycine max

<400> 12615
agcttataat atattattac gctcgaaatt aaacatctta agctctcgag aaattcaaat 60
ggtcataact ttccacccgg atgtccgatt atggcgaaac acatatctag acgctcaaaa 120
ttgaacaacg gaagctcttg agaaattcta atggtcataa cttttaactc ggatgtccga 180
ttcaggcgca tcacatattg aggcgctcga aaatgaacaa cggaagctct cgagaaattc 240
aaatgggtcat aactttttcac actgagggtcc gattcaggat tataatatat caagacgtc 300
gaaattaaaa atcggaagct ctcgagaaat tcaattgggt atcacttttc acacggatgt 360
ccgatttggg tgcataatat gtcgacacgc tcgaaattga acaacggaag ctctcgaaaa 420
atcaaattgg cataactttt g 441

<210> 12616
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12616

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tcttttcgag tattggccgt atgcaatcat cttataagat atgggtgaaga tgttgatgac 120

gtgaaggcca ttgaataaat acttctaact ttatattcat agtttgactt cattgntacc 180
aacattgaag agaacaagga ttttatgacc atgactattg agcaactcat ggggtgcctta 240
cgagcatact aagataaact aaagagaata atttaacaag atgaggctac ggagcaacta 300
ctacaactca acgtaaagga agcagactta tcatattaca agagccaaag atgac 355

<210> 12617
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12617

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ctttatagac tcttcaagtc tggtaagag aaccattaga agagttataa cctttagaaa 120
acctttggaa gagttacatc ttttgattct tattcanaac ttatcattgg taatcgatta 180
ccaaatcatt gtaatcgatt agacaaagca tttttgtaa aggatgtgac tcttcacatt 240
tgaatttgaa tttcaacgtt caaacacact ggtaatcgat taccaatata ttgtaatcga 300
ttacaccatt ttgaaattga atggaacatt gtaaattcag tt 342

<210> 12618
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12618

ctccccgtta atgggtgcct tntcgtcttt ggtattgtga tgtcatacgg attaacatga 60
tccgtattac tcattcagat caacttgatc cgtatgagtc ataaggatct agttgatccg 120
tatgacttat acggatcaag ttgatccgta tgacctttgt taattcaaaa aaataataaa 180
taggtatttg tgttttagaaa atgttttaaa tacgagttta ttcgtagttt tgtataaaaa 240
acagattggt tgtgttttaa aaaaatatgt atgatgcatg gtgtatgaaa tagtataaat 300
ttaatagtaa tattgaattt tgagttgttg tgttatttat ctcatggaaa tagcatattt 360
attaatatga gtcgtattat tatgaattgg tctaatatga tcatatatgc tttagaatat 420
tataatgatg tttattca 438

<210> 12619
 <211> 507
 <212> DNA
 <213> Glycine max

<400> 12619

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ttgttcgata ttgggttgaa gaattggcta aactggcttc ttttgtactt ttcacaagta 120
ttggagatct ttctaccttt caagaggcta tgaatagcca ggagaaagac aaatggattg 180
gtgctatggt ggaggagata gagtctttac agaagaatca ggcattggcag ctagttgagc 240
ttcctacgag caagagagtc atagggtgca aatgggtaga caagaagaaa cctctagtat 300
cagaaaaaga aaggaaaaag ttaaaggctt gcctagtagc aaagggatat gcatagtaga 360
agaggttgat tatgatgata ttttctccc taatcatgag agacacttct atcatggcga 420
tyttagcctt tggagccagt catgacattc acttggagca tatggatgtg aagacaccct 480
ttttcaccat gatctagggg aacaaat 507

```

<210> 12620
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12620

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tcagcttcac atcagaccac ttccaggggtg ctggaactac ttcatatgga cttgatggng 60
cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttggtgt ggatgatttc 120
tccagattta cctgngtcaa ctttatcaga gagaaatcag atacctttga agtattcaag 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat caggagtga 240
catggcagag agtntgaaaa cagcaagttt actgaatttt gcacatctga aggcattcact 300
catgagttct ctgcagccat tacaccacaa caaatggca tagttgaaag gaanaacagg 360
actttgcaag aagct 375

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<210> 12621
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 12621

tccacatat ttccttgtag gatggggtca atttgtagcc cttgttttat gaccagagga 60

gggaggagat gaagttcccc tccgcggcga cgcgccgcac cgtcatttcc cggtgggag 120

aggtggccaa cyccgggaag ttctacgtca ggagtagcca gaccactgtg aggttttagg 180

gtcaggaacg tgggaggaca gggaagctgg ccattgccgc cgatatctac tccgtgacgc 240

cctcgtttat g 251

<210> 12622

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12622

tcaacattca atttcgagcg tctatatata ttacaggact caatcaaaca tccgagtaaa 60

atgttactgt cgttaaatt tgcttagctc tccagcttta aatttcgagc gtctcgatat 120

atgacgggac tatatcagac atccgagtaa aaagttattg tcatttgaat ttgcttagag 180

attcaacatt catcttcgag tgtctcgtaa tattacggga ctcaattata cattcgagta 240

aaaagttatt gtcgttcgaa ttttctcaga gttcaacaa tcaatttcga gcgtctcgat 300

atattacggg actcaatcag gcatccgagt anataagtat tgctgtttga attggctcag 360

agcttcaaca ttcaatttcg agcgtctcgc tatattac 398

<210> 12623

<211> 469

<212> DNA

<213> Glycine max

<400> 12623

gctttgagca aattcaaaca acaataactt ttactcaga tgtctgattg cgtcccgtaa 60

tatatcgaga cgctcgaaat tgaatgttga agctctgagc caattcacac gacaataact 120

tttactcgg atgattgatt gagtcccgta atataacaag acgctcaaaa ttgaatgttg 180

aagctatgag ccaattcaaa tgacaataac ttttactcg gatgtctgat tgagtccga 240

aatatatga gacgctcgaa attgaatgtt gaacctctga gccaatcaa acgacaataa 300

ctttttactc ggatgtctga ttgagtcceg taatatatcg agacgctcga gattgaatgt 360
 tgaagcttta tgcaaatcca aacgaccata actttttact cggatgtttg attgagtcce 420
 ggtatatatc aagacgcttc gaaatgaatg ttgaacctat gagcccat 469

<210> 12624
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12624

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 cggtagtat aatgttagtt ccaccttcaa tgtctctgat ttatctcttt ntgatgcaga 120
 tggagaatcc gatitgagga caaatccttc tcaagaggga gagaatgatg aggacatgac 180
 caagagcaag ggcaatgatc cacttgaagg acttggagga cctattgatg aggacatgcc 240
 aagagcaagg gcaaggatcc acttgaagga cttggaggac ctatgac 287

<210> 12625
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 12625

caacatagtt gacacggaag ggatatctcc tctatatata agcataacat catatgcaaa 60
 agccaaatga gatagttgaa tacctgcaca gttgggattg aaattaaaat tggcatcatc 120
 cttgaggctg ctcatatctc tggaaaagtg ctccaaacag agcaciaaca gattaaggga 180
 gagaggaatc ccttgtctaa gaccccgcta tcctttgaag tgaccataaa tgaatccatt 240
 gactgccaca ctataggaag tggaagaaac acattccatg atcaaagtac agaactgggc 300
 tggga 305

<210> 12626
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12626

acgacaatta cttttaactt ggatgtttga ttgagttccg taatatatcg agacgctcga 60
tattgaatgt tgatggtcgt tgcaaattga gacgacaata actctttact ctgatgtctg 120
attgagtcct gtaatatatc gagacgctcg aaattgaatc ttgatgtctc gagcaaattc 180
aaacgacaat aactttttac tcggatgtct gattgagtcg tgtcatatat cgagacgctc 240
gaaatntaat acgaaagcta tgagcatatt caaacgacaa taattattta ctgggatgtc 300
tgattgaatc tcgtaatata tcgacacgct cgatattgaa tgttgatgct ctggtcgatn 360
tcaaacgaca ataatt 375

<210> 12627
<211> 546
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12627

ctgcaagctt atactttcaa tatgagttct cccatcgtgt ttgtgacaat ggtttgagag 60
ttagactaga atatgatatt ggtaaaattt ttcatttttt attgaagaag aaaatatatt 120
atatatgcat cgtagtactc ccgaaaaaga tgtaatttta ggacaagagt tagtcatatc 180
acaaaatacc aaatttagac tatgacaatc acgtggagta taaaatgatc gataattaa 240
gtctaaaatt cttttttgca caccttgatg ttatcctttc atatttgatt cattatcata 300
accctgtcct cttaagtaat taatatcaag tgaaatatta tttatttcat tcataatagc 360
ttcaaaaagg ccttnttccg gttgtatcat ctacctttta aaattataaa aaaaatttca 420
aaaacttgta tttgaattga agaaacatct acatatcata atacaaaagt catttgttct 480
cgatgactta tatcacgagg acaaccaagt atgattgaaa atattgtgca ttattgatat 540
ttttat 546

<210> 12628
<211> 426
<212> DNA
<213> Glycine max
<400> 12628

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ccggaagatg atgagaaatt taaatgggtca taacttatca cgcggatgtc tgattcaggc 120

caataatata tcgagatgct cgaaattgaa caatggagct ctcgagaaat tcaaattggtc 180
 ataacttttc aattggatgt ccgaattagg cgcacacat atcgagactc tcgaaatcga 240
 acaacgaaag ctctcgagaa attcaaattg gcataagttt tcacacggaa gttcgattca 300
 ggcgcataat atatctagac gttagatatt gatcaccgga agctcttgag aaattcaaatt 360
 ggtcataact ttctactcgc atgttcgatt caggtgcata atatatcgag acgctctaaa 420
 ttgaac 426

<210> 12629
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 12629
 cgcacacat atcgagacgc tctaaattga aaaccggaag ctctcgcaaa attcacatgg 60
 tcataagctg tcacacggaa gtctgattca tgcgcataat atatcgagac gcttgtaatt 120
 gaaaaaagaa tgcgctcgag aaagtcaaatt ggctgtaact tgtcaaacag atgtccgata 180
 cgtgcgcata atatttcgag acgctggaaa ttgaacatcg tatgctctcg agatagtcaa 240
 atgggcataa cttatcacac ggaagtccga ttctggcgca taacatatcg aga 293

<210> 12630
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 12630
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 ctgcatgaca cgctcgctca atatggctaa tcgccatcct tatgaggaag aactgacgac 120
 aacacgtaat ggatcgtggt cctagacaaa acctgattga tcgtttttaa cttctcattc 180
 ctccatttaa aggaaagaat gatcctgaag cctacttga gtgggagatt aaaatatagc 240
 atgttttctc atgctacgac tatgaggacg accaaagagt gaagcttgcc gccacggagg 300
 cttctacta tgctcttggt tgggtggaaca tgcttctaaa tgcgacatcc agaaacgacc 360
 agccactggg tgatacatgg accgagatga tatacatcat gatgaagcgg tatgtgccag 420
 ctacttac 428

<210> 12631
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12631

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atgtgttggt tcttattgat tgatgtgtgt atgaagttca actagtagta ggtactttat 60
ttctcacatc aaggaagcat tgttaattca acgagtacac aagctgtgta ctcataatta 120
agttgtcagt ttccacaact gtaattcttt tattattggt tatggcgact agaagtctct 180
acacactata ggtcagggcc atggctcaaa ggtaggcta tagctcagaa gagcactact 240
ttctatgaat cttagattatt taattntaaa gggtaaaata aagatattat agagtatata 300
tgtttgataa ttntattaat acaaactaat taattaaaaa atataagatt aattcgtttg 360
tctgacaata ttatagttga taactgtatt acaacatgat aatgtataat atacatggta 420
ttacatctaa tatcattttc tatcattgac atatagtatt 460

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<210> 12632
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 12632

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ctcaagcctc tctgtggtat taactcatgc gaagggctgc ccttgacaaa tactgagatt 60
aatactatct taggcatccc tccattcatt gaatcccctt ggagtggaaa cccatcctcc 120
gcagccagtc aagcacatag tcccatgata ctgaatcata tgccttctcg tatecacttt 180
aaagacaatg cacagcttct gccctctcct atcttcctcg accacctcat ttgcaattac 240
cgcgctatgc aacaaatgcc ttcttttaat gaatgcaaata tgccttttgt ctatgaagaa 300
cggcatgacc ttcttccatc tgttggttag tagctttgcc aagggattta atcaaataac 360
tacgtccgga tathtagaaa ccttttcacc tgttgctgtg aaacctgccc caatcaaata 420
atagtgacta ttgctct 437

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<210> 12633
 <211> 438
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12633

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tccacacccc tcttttagct gaattaacct cctctaaaat aattacggat gagaataacg 120
caacatataa tcaaacatca gacataatta ctaataatat atagatatat atatatcagg 180
gttgtacaac tctccacccc ttttagaaat ntcgtactca aaatttacct tactcaaaca 240
aggatgggtg agcttctcgc atctgactat ctaattacca cgtggcatct tctcctgatg 300
cacctcctca gatcaccttg accaacgaaa tctctttccc tcttaagtgt ntnggtcgcc 360
tatecttgat cctcaaaggc aatgtttcat atgtcagaat ctccttcaact tgaccatcat 420
caattaatca catgggat 438

<210> 12634

<211> 551

<212> DNA

<213> Glycine max

<400> 12634

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ctctctgtgg tatgaactca tgcgaggggc tgccattgac aaatactgag atataagcag 120
attttaggca tccctccatt catcgaatcc acttgagtg gaaaccctac ctccgcacca 180
agtaaagcac aaagtcccat gatactgaat catatgcctt ctcgtaatcc actttaaaga 240
caatgcacag cttctgcctt ctctagctt cctcgaccac ctcatattgca attaccgcgc 300
tatgcaacaa atgccttctt tcaatgaatg cagattgcct tttgtctatg atgaacggca 360
tgaccttctt caatctgttg gctagtagct tttgcaacgg atttaatcca ataactagtc 420
aggattattc agaaaccttt ccacctgttg ctgtgaaacc tgtcacaatc aaaataatgt 480
tgactattgc tcttgctcat cactgggtcta ttcaataaat tgtgtgaaca atgctctctt 540
taatgggcat t 551

<210> 12635

<211> 425

<212> DNA

<213> Glycine max

<400> 12635

tcagctttct agaaactgaa caaaggaagt tctctagata tttgaatggc cataactttt 60

cacacagatg tccgattcgg ggacataata tatcaagacg ctcgaagttc aacagtggaa 120

gctctcaagc aaatcgaata gtcataactt ttcacaatga tgttcgattt tgggacataa 180

tatatcgaga tgttcgaaat tgaaaaacgg aagatttcga gaaattaaaa tggtcataac 240

ttttaacacg gatgtccgat tgggggagat aatatatcga gacgctcgcc attgaacaac 300

caaagctctc gacaaattca aatgggtagt aattttcaca catatgtccg attcggagac 360

ataactcatt cagacgctca atattgacaa tgggaactat tgagaaattt gaatggtcac 420

acctt 425

<210> 12636

<211> 523

<212> DNA

<213> Glycine max

<400> 12636

agcttaacaa aaggcatgtg aagtgggtgg aattcctata gcaattccct tatgttatca 60

aacataaaaa gggaaaaggc aatattgtag ccgatgctct ttctcggcgt catgcattac 120

tttctatgct tgaaacaaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180

atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggttttcttta 240

gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300

atgtgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360

ctctataaac attacaagaa cttttttatt ggctcatat gaaagaggat gtgcagaaat 420

tttgtgaaca ttgcattgta tgtagaaagg caaagtctaa gggaaagcct catggattgt 480

atactccatt gcccaattcc cgagtattct tggattgatt tat 523

<210> 12637

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12637

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 tcaccattca ggaacacccat tttcacatcc atttgatgca actcaagatc aaaatgagct 120
 actaatgccg aaattactcg aagagagtct ttcttatata caggggaaaag gtctctctgt 180
 aattgattcc ttctctttta gtgaatcctt tagcaacaag atntgcctta tgtctctcaa 240
 tgttgccctc taagtctttc tttgttntga agacccatct acatccgatg gctttttacac 300
 caacaggcaa ctcaacgaga tcccaaactt ggtagatgc catagaatcc atctcatccc 360
 tcatagcatt ata 373

<210> 12638
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12638

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 catttgctgc ccaagtttca tggctcttgca ggtgaagatc ctcataatca tcttaaggag 120
 ttccatcttg tctgttccac catgaagtcc gctgatgtcc aggaagatca tatctttcta 180
 atggctattc ctcatctctt ggagggagtg gcgaaagatt ggctgtatta ccttgctccc 240
 aggtccatta ctagctggga tgaccttaag aggggtgtgt tggagaaaatt cttccctgca 300
 tctaggacca ctgccatcaa aaaagacatt tcaggcatta ngcaacttag tggaaaagagc 360
 ttgtatgagt actgggaaaag 380

<210> 12639
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12639

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 cctttccatg ctaattccaa gcagaaaatt gaatcattcc taacctgtan actaggaaaa 120
 ctatcatcag cctcaccggg tcttgaaaca tccagtcccc tgaccaatca tcanaggagt 180
 cagtaaagag tttcaaactt tcaatacctc ggaaaacaaa tatgcaagga caggtgtata 240

gaaattccta cttccattga attcggttct tgagtttctt ttctataagt ccaatccctt 300
 caagaacatn tggtatatca tatatcctcc tcttttgcac ctgcagatac caa 353

<210> 12640
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 12640

agcttatgct gcaaacatct acaatagttt cttctcatcc tcagtttcaa aatcagccac 60
 aaaagaacaa ctatgacctc tctagaaata ggtacaatcc cgggtggagg aatcatccca 120
 accttagatg gtcaaatcat tcacaacagc aacagcaaca acaacaacag caacaacccc 180
 agaaacaaca aatagttgag gcttctccgc aaccttccct tgaagaactt gtgaggcaaa 240
 tgactatgca aaacatgcag ttccaacaag agaccagagc ctccattcaa agcttaacta 300
 atcaaattggg acaattggct acacagttaa atcaacagca gcccagaat tctgacagat 360
 taccttctca atctgtctag aatccccaaa atgggagttc cattacattg agatcggg 418

<210> 12641
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12641

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 aaggaacctg acgagcgtat cacgttatgg ttcatgagg atgtgcttga tgtattatta 120
 aaagaaagtg tcagacctac aattatttat ttgggatgtg ctatactaaa tgccatactt 180
 tcattttaca ttattgtcaa tatgatttca caggaacaa aagctgttga gggattgact 240
 ttgatgcttc cacggagtaa tacaaaatgt ttgagtacta catctttcaa gaagatgaag 300
 aaactcatgt tacttcaatt tgctgggtgt gaacttgctg gagattttta gaatctttca 360
 agagatttga gatggctata ttgggatgga t 391

<210> 12642
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12642

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gtgaggaata atgaggcatt tacttgggggt gaaagacaag agcaagcctt tgctttactc 120
aaagaaaagc ttactaaggc acctgttcta gctcttcctg gactttctaa aacttttgag 180
ctagaatgtg atgcctctag agtgagaatt ggagctgtat tgttacatgg ttggcaccct 240
attgcttatt ttagtgaaaa acttcatggg gccaccctca actacactac ctatgataaa 300
gagttttatg ccttaataag agccctccaa acttgggaaa attaacttgt ttccaaggaa 360
tttgtcattc atagtgatca tgaatcaact taagtacatt agagggcaaa ac 412

<210> 12643
<211> 417
<212> DNA
<213> Glycine max

<400> 12643
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cctcattctc tgatatcggg ccaactgacat gggctgcggc gggccaagg tggaggactt 120
ccccgcgggtg gttctgtgta gagagcgaaa ggcgttcctc aaagccgcat cagagcaacg 180
ctacgctctc gccgctgcac acgtggcgta ttccattcg ctgagtgaag tgggcgacgc 240
ccttcacaag ttgcgcgaac aagacctcac caccaccacc gggttcctct ctcgggttct 300
cacattacc cgggaaacca aaagcatcaa caataacaaa ctctcactct ctcccccctc 360
tatagcatct aatgaaaaaa aactatgaaa aacaaaacga atggcttaat tcaactgg 417

<210> 12644
<211> 354
<212> DNA
<213> Glycine max

<400> 12644
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aacactttta agttcaatct cccattgtc catatcatc gctaacaaag caagaatata 120
tgaaagaaga tgaggctctc aatcatattt ctttgcatc tgggtgtatc gaacgaggga 180
gctgcggaat agtcagctga cgacgttctt gagaaatcag atctcccagt tgggcttctt 240

ccaaaagggtg ccacagggta tgaattaaac gaaaagaacg ggcacttcac agcgtatttg 300
aatggaacat gctactgcag catagagtcg tatgagctac agtacgagtc cacc 354

<210> 12645
<211> 382
<212> DNA
<213> Glycine max

<400> 12645
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atcccatgca aacgacaata atcaattttg ttcttaatag cctttaacaa gtaatgatcc 120
ccaacgggat ttctgcacgg ttctggcgac gaccagtta cgaaaaacac gcggggcttg 180
ttgggtcgaa ggaaattcga gaaattggga ttctcgcgaa gccagcgaga tctctgttcg 240
tcccagatcg atattttggg gccgagacga tacgcctcgt gtgggttaac ttctcgcgg 300
ttctcgtctt ctgtttcgcc taccaagatg gtgttgatgt ctaacgcgtt gtaattgggtg 360
gtggaagtgg aactttcaaa cg 382

<210> 12646
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12646

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gctgggtgtaa gcaagagtat ttcacctgca cagaagagta ctcacttaca acagctagca 120
tatgtgagga gttttcctag tggggagaga aactgttaca gaataaatgt aacaagtgg 180
actaagtatt tgatcagagc tactttcttt tatggaaact atgatgggtct caatcagccc 240
ccacaatttg atcttcatct tggagcta atatgggaca cagtgaactt ccccaatgct 300
tcactcagtg aaatcagtg gatcattcac actccatcac tagattacat acaacctatg 360
ctgggttaaca caggcaaagg gactccattc atttcagcta tagaattgag gactntgaac 420
aa 422

<210> 12647

<211> 425
 <212> DNA
 <213> Glycine max

<400> 12647

gcttgtaatc gattacacac atactgtaat cgtattcctt tatgttattt tcagaaaata 60
 ttctcaattg tcacatcttt tcatttggtt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gccaaagattt ttccagaaca aaaagggtctt atcctcttaa 180
 aaagcaaaat cgttttatcc tcttacaaat tccttggtcca aaacacttgt gattcaataa 240
 ggaattattt gagtgctcaa attgttcaat ctatctcttt caagagagat ttcttcttct 300
 ttcttcttct attctgaaaa gggattaaga gaccgagggt ctcttggtgt gaaagaatta 360
 taaacacaaa ggaaggattg tccttggtgtg tttagaactt gtaaaaggaa ttacaagat 420
 agtgg 425

<210> 12648
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 12648

agcttcctta agaagatttc taaagaatct agagcttagc tacacatacg tctctaatag 60
 ctaagctcac ctcccttgaga tgagaagcta caacttagct acacatcccc tataatagct 120
 aagctcaccg gcatgacaaa atacatgcaa atacaaaaaa aatccctact acaaagacta 180
 ctccagaattc ctcaaaaatac aaggctaaaa cctataacta ctagaatggc caaaatataa 240
 ggctctaaag atggaaaaac ctattctaatt attacaaaag ataagcaggc tcataacttag 300
 cccatgggct cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggtatt 360
 atggcccaat ctacttgag tcttctattc aatgcccttg 400

<210> 12649
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12649

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tcaaaagatg ctacaaaccg gaagaagcac tagtgctata gttatcattg tattaattgt 120
 gcttgtgctc ttttctttgt tctcctttgt actttttaag ctgtggctga agaaaaaaag 180
 ggaggagcaa tatgctcgtc tttaatgcta atgtttttgg ctttgtgttt tccagcttcc 240
 aggggataaa atattaggtc tggcaaaaat ttcttgggta ttggaatccc aggagatgcc 300
 aaggacttct tcaatcaagt cgagtcatta ggttttctag agagcaatat gaaagtgctt 360
 tactaaaaac aatcttatta tagattgcag ct 392

<210> 12650
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 12650
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 gacacttctt gagcaggtag gagcagttat gcaagtggga tcagcaactt tcattatcag 120
 agtaatcaag cacagcggaa attctgcaag ttgcaagtcg tttccaggat gtcaagacat 180
 ctcacatgac atcagctttc tgctttctgct cccctgtctt ccatgctctt actgcagcat 240
 cttctatcag ctactagtct tttccaggat gtcaagacat ctcagtgtgac atcagctttc 300
 ccttgtctcc atgctcttac tgcagcatct tctatcagct actagtagct tacatcagtc 360
 atcatcagca gcagcagctt cccctcaaa atcatgtaca tacaactccc cctca 415

<210> 12651
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12651

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 aaaacattct caacagtcac atctttttat ctgtttctta aatagccatc aaaggcatat 120
 atatatgtga cttgagatac gaatttgaca agagttttga agaacaaaaa ggtcttatcc 180
 tcttaacaag caaaattggt ttatcctctt acaaattcca tggccaaaac acttgtgatt 240
 caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattact 300

tcttctcttc ttctttatatt tgaaaagggg ttaagagacc gaggggtctct tgttgtgaaa 360
ggattctaaa cacaaaaggaa ggattgtcct tgtgtgttta gaacttgta aaggaatcta 420
caagatagtg gaactctc 438

<210> 12652
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12652

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gttttttgaa gatgtcagca atttgatcca cagaagatac atgacagatt tggagcaatt 120
tggattcaac aagctcatga atgaaatgga aatccaaagc aatatgtttg gacctagtgt 180
gtataacagg attcttggtc agaaaaatgg cgctgacatt atcacataac aataatggag 240
gacgtctaag aggaacacaa agatcttgaa gcagttgttt gatccacaac agctcagcag 300
cagtgtatgc gagtgaacaa tacttagctt cgggtgctaga tcttgcaaca actcgttggt 360
ttcgagaagt ccagctgata agattggatc catganagat ggcataacca tactaagacc 420
tgctatc 427

<210> 12653
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12653

agcttaaact aatttcaact aaatcattta tagaggtttt aaatttcata ttatagtcac 60
accgagccaa atcggactgt atgattttta agtttgattc aaatggcatg taatgaaaaa 120
actaaactaa atcgcacag aatatttttt gtaaaattat tttatantaa tttgtgtgat 180
gaagaagagg gaaaaaatga aatcatttaa ttaatgtaat aatgagttta aaaaactatt 240
ttacaaagac ttaaataatgt ttttggtctc tgatatatac tcaatttttg tgtttaatcc 300
ctaataaatt tttccttcga atcggatccc taatatttta aaagttttgt ctaaggcccc 360
tgccattaac tatgattcat taactgctta cgtggtcggt aacttgac 408

<210> 12654
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 12654

agacagaagt aaccttaagt agtgatttat tagaatgaat tatgagagtt tccagatcca 60
 ctccaggatt ttttttaaca tccagatttc acttttagtg aggaacttat tcccatgcag 120
 aacactcttt cagctattat gctcctatgc taaaaaaaaac gtgaaaggaa ctgcctacct 180
 gagatagaat gattggacca ccatgagact gaaatagctt ttcattcttc atcatctgga 240
 ctattttctg agtgaaacct tgctttgcgg ctaaagtaaa aacagtaaaa ataagtgt 298

<210> 12655
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12655

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 ctatgacttc attagcaatc atcacaccat ggagaatatg ccttcctttg agaaaggcag 120
 tttgcctttc atcaataatg tgaggcaaaa caagagccaa cctattagca aggactttag 180
 aactatttt ataagcacac cctataagag agatgggtct ataatcatta agagattgtg 240
 ggttaatgat cttggggata agggctatga aggatgcatt gcttcctttg ggggaatctgc 300
 catttatgaa gaactcatcc atgaacctga taaaatcagg ttttagaatt tccaaaaact 360
 gtttaataaa gttgaagttt aaccatccg ggccagggtt tttatctcca ccacaagccc 420
 aaac 424

<210> 12656
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 12656

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 agctatgcgt agtgattgct tagtgcaatt ctccattctc aacctttttc ggagcccat 120

gaattgcggtt ttcgttcattg tgcctccac cctcgagttc ggagctatgc gtagtgattg 180
 cttagtgcga tttccattc tcaaactttt ttggagcccc atgaattgtg ttttcgttca 240
 tgtgtcctcc accttcgagt ttggagctat gcgtagtgat tgctttgggc aattctccat 300
 tctcaacctt tttcgagacc catgaattgc ggtttcgttc at 342

<210> 12657
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 12657
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 cattgtcatc attttttttc gtcattgagg tgccacttga gctgccaggt ctctccacct 120
 ttgggcgtat tctttggaaa gatctgtgcc ctctttttgc acatgttctg tagttgcac 180
 ctatccgaag ccattatatt gacacaacct aacgaaggca accattaggt ccttccaaga 240
 atggactcgg gaaggttcct agttagtgtg ccaggcaaca gctaccccaa taagactttc 300
 ttggaaggaa tgtatcagca attcttcatt tcttatgtat gccccatct tccgacaata 360
 catctttaga tggttcttgg ggcaagtagt ccccttg 397

<210> 12658
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 12658
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 acagcagggg agaatctaac acaatttctt ctgacaaata ctttttgata ctcatcactc 180
 tttctgtttg ttatgtcaga ggggaatgtt acaatgaatt ccttgactag gccttcataa 240
 cagtctccca atttggtgac tgtcttcagt agtccagcag cctcgatgag gtccatgatt 300
 tccttgcaat ccaaggcatt tcttccatt tctctttcta aagcaagcct tcgttgatat 360
 acaaatttcc acctttcaac attgccaatg gagtggaaag agatgttg 408

<210> 12659
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 12659

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caaaagaaaa ttaaaaccta tatagatgaa caacttgaaa agggagatca aatcgacta 120
gcactcacca aagccatcga agattcttgt atatctattg tcatcttctc agataactat 180
gttctctcaa agtgggtgctt ggggtgaactc ttcaagatct tggaatgcaa gaaagaaaaa 240
ggacagattg tgataccagt gttttacaat atagatccat cccatgtgag gaagcaaatt 300
gggagctata agcaagcctt tgcaaaactt gagggagagc ctgaatgcaa caaatggaaa 360
gatgctctta ctgaagcagc aaatttagtt gggttggact ctaaaaat 408
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<210> 12660
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12660

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ttaagaaggg ggggttgaac taacatattg caaactgttt gccctaatta aaaaaaatct 120
atgtgacttt ttactcttgt tatgaaatcc cttaatgaca atcttcttaa atattaatcc 180
aaatgaagca tcttgaatat gaatatacag ctttgataag taaaggagat tactggaaga 240
tgaatacgtt aacatcagtt ttataacttg tgggccacac ccttgtgctt acgtacagta 300
cccaagcaac ccgcttgaga gatccactat cttcgcaaat cctttcacia gttctaaaca 360
cacctagaca atccttccct tgtgtctata gatcct 396
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<210> 12661
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 12661

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agcttgtgag gatcggtggt tgtctttatg tcaaactctc tcacggagtg atttgttgga 60
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gagcaagctg tttatcaaac taaccaacta catgataata tttcaaagat tcagaccct 120
 gtgataacag aactagatat aaacactaat tttaattctat atatgatcta taaaaaaagg 180
 gaataccatc tgctagttag acatctgaat atcttattaa ttatgtacta tttttcaatg 240
 tttataaatt tagaaaatta cgggtcaattg ttagtattca acactttttc aagttttatg 300
 aatattaaac ttctaaccat tttcttaaat aatatttaaat gcatttttaa tttatcaaac 360
 aattagttca atcaaataatt ttttttggtg actcacgtta aaaag 405

<210> 12662
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12662

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 ctggagaggt tcaccagcat atttcctttg atgcatgaca atcccatatt cagtcacaaa 120
 gaattctaac ccaaggaaat atgacaattt cctaagtta gtcatttcaa attcactcat 180
 catgagttaa gtgaaattat caatctctgt tgtatgatta ccagtcacta gtaaattcat 240
 aacgtatagg cacaccatta acaccttggt atctctcttc aacatgacat aaactccatg 300
 ttctaccaca caccttttga agccaagttg agcaagatat gcatcaattc tctattcca 360
 tgctct 366

<210> 12663
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 12663

tcgatggaga acaaccttag gatgcagtat ttacatgcac agagaagaaa aaagtgcag 60
 caaaataggt cacgtctaata ataatttaaa ttgtaagttc aacatcgggt ttcaataaaa 120
 aaaaaaaaaa aaaccaatgt taacaacttg atgttaacgt taacatcgat tttattaaac 180
 aaaccgatgt taacgaacta aggttaacat cggttttctg aaaaccgat gtttaactaat 240
 taatgttaac atcgggttttt ccaaaaccga tggttaaagtc acttcattaa catcgggtttt 300
 cttcaaacat gatgttaacg tatacacatt attcacaatt atgccaccgc gttattctaa 360

catcggtttt ttaaaaaacc gatgttaata aagtctcatt atttatcatt 410

<210> 12664
<211> 407
<212> DNA
<213> Glycine max

<400> 12664

agcttcttat ttgatccaga gaggagtgcac tacattttat tttactcaag tcacgcccac 60
taaactctgg cacaatagac ttggtcattg ccatcttgaa agaattgctaa acatgaaaaa 120
aagggaataa tgcataaaga aatttgaaga agtttcaaat ggaggaatgc aaatctgtta 180
gcacaccaat gaatcaaaag gagaagttca gtaaggaaga acgtgttgat aacaattatg 240
aaggatatta tgggaacttg attggatgtc taatgtatct cattacaaca aggccaaaca 300
ttatattttc tcaaaagaac aaaactggaa tttttgttga caatcaagta gtcattgcta 360
ttgcaaaaaa tctcgtgtgt catgggaaga ctaaacatat taacatc 407

<210> 12665
<211> 423
<212> DNA
<213> Glycine max

<400> 12665

tggttatctc cttcttcaact acatcaagaa tcacctgggt gtgtcttctc tgtggctgtc 60
ttactgggtt agctccatcc tctaaattta ttgatgcat acatgtggat gggctagtac 120
caggaatgtc cgccagggtc caacctatag cttcttatg cttcttgaga acagacaaca 180
acttctctc ttgctcatca ctaagggagg cagatataat cattggaaaa cttttgctat 240
catccaagta agcgtatttt aaatttgatg gcagaggctt caattctggg gtggttggtt 300
gggtagtggg agaaggagat ggtttctcag cctgtacctc ataaagaaag tcagaggtat 360
gtgtacttcc tgaaacatgg ttagtcctat ctgactctat aaaatcaatc tcaagaggca 420
aaa 423

<210> 12666
<211> 367
<212> DNA
<213> Glycine max

<400> 12666

actcgggcaa gtgtggccat gtactccgct ttacttgccg aaagagcaac aactgattgt 60

tgatttgctt tccaactgat tgttgtagca aacaaagtaa acacatattc tattaagac 120

ttccttgtgt ctacatttcc tgcaaaatct gcactacat atcctgtgac tgetgectcg 180

tgtgctgtct tcttgtaact taaactagct ttcaaagatc catttaaata ccttagtgtc 240

cacttcacag cttcccagtg tgcactgccg ggatctacca tgaatctgct tataataactt 300

acaacatgag ccaagtcag tttactgcaa accatttcat actctattgt tccaacacca 360

ctggcat 367

<210> 12667

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12667

tactcaagct tggttcccaa cgcctctgtac aagctctgtt ttatttacag tttatcnaa 60

gatctttggc agatactatg ctatatggca caccatgtaa ctagacaacc tcaacttatat 120

acaaggtggt gaacttctcc aaggaaaatc tgatattaac gggaatgaag cgagtagact 180

tagtcaatct gtcaacaata acccagatag aatctaaacc tctacgggtt ctagggtgtc 240

ttaccacaaa atccatggaa atactgtccc acttgcaactg gggatatctt aacgggttga 300

acttccctta aggtctctga tgttatatat tacccttctg acagactacg catgcataca 360

cacactcact aacctctctc ttcattgttg gccacaaaa catcatcttt 410

<210> 12668

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12668

tgtttcttgc aattccaaga cacaagagag cttcctttat gtggcatgta attngcaacc 60

tgcacaatca gaatctctat atcttgactc atccactgat ttacctttct catctaagtc 120

aaggtaggtt gaagttgtcg ttggagtata tgggtctttg cattttttat gccaaatttc 180

ttaattagtt ctatagagta tttgggttga cataggaagg ttccatgttt catctactgg 240
 acttggagtc caaggaagaa atttaactca cccatcatag acatctcaaa ttccttctac 300
 atacaactag aaaattcctt acacaaaatt tcattactag caccaaatat aatatcatca 360
 acatatattt gaacaattaa caactcacta tttactttct taataaacia tgttttgtca 420
 act 423

<210> 12669
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 12669
 gcttctgttt tcaaattcga gattctcaat attttacgtt gactttatcg gacatctgag 60
 ttaaaagtta ttgtcgtttg attttgctga gagcttctgt tatcaattac gagcgctctca 120
 atatattacg agacttaate ggacatctga gtaaaaattt attgtcgttt gattatgctc 180
 agagcttcta ttctaaattt caagcgcttc aatatattac gggacacaat cggacatccg 240
 agtaaaaggt tatggtcgtt tgaatttgca gagagctttt gttttaaatt tcgagcgctc 300
 cgatatatta cgagactcaa tcggacatcc gagtaaaaat ttattgtcga tagaaatttc 360
 ttagagcttc cgttatcaat tatgagcacc tcgatatatt acaagattca ttcgttgatc 420
 cg 422

<210> 12670
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12670

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 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
 tgggtgttct agacaaaacc aaattgatgg tattaaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300

tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatggttga 350
 tacatggacg gagatgaaaa agatcatgag gaagcgggtat gt 402

<210> 12671
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 12671

tgtatgagta ctgggaaaga ttcaagaaat tgtgttctgt ctgtcttcac caccagattt 50
 ctgagcaact cattcttcaa tatttctatg aggacttaa caacatggag aggagtatga 120
 ttgatgctgc tagtggtgga gctcttggtg atatgacccc tgctgaagct aggaatttga 180
 ttgagaagat ggcttccaac tcccaacaat tcagtgaag aaatgatgct attgtcctta 240
 gaggagtcca tgaggtggcc acggattcat cttcatctac tgaaaataaa aagcttgaag 300
 gaaaacttga tgccttggtc aacctagtaa ctgagcttcc cataaataag aaatctgcac 360
 ctgttgcaag agtctatggt ctatgttctt ctgcagatca ccatacagat ctctgtcct 419

<210> 12672
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12672

agcttgtgaa gcgtngcaat gtagtnatta tagtacagng cagggcctgt ctctttgtca 50
 tagccagcaa gaaggatggt cacagagtat gggttctata gaaaaaagaa aattaatggt 120
 tgaggcttca aatgaatcat taaccaacta ttgtatggtc taaggcactg tttggataat 180
 atgaattgat ctcataaagc taaataggag aagtaagatg aataagagca taaattgatt 240
 ttagcttctt aatttgtttt cctataagtg agagccaaag gacatgatat atgagagtta 300
 gggtttagaa gagatacctt gcggagagca gtggcaagtt cgccacgtgt gaaattggcg 360
 gcggcggcgg tggtagagagg gatgccgtta 390

<210> 12673
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12673

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tatatggcaa cttactgaat gggacaattc cttcttggtg tttatctttg ncatctttgg 60
tggatttaga tctatcagga aaccaattat caggccatat tagtgcaatc tcatcatatt 120
ccatggagag attgtcttta tcccacaaca agttacaagg caatattcca gaatcaattt 180
ttagccttct aaaccttact tacttagatc tatcatcaaa caatctaagt ggatctgtca 240
aatttcacg tttctccaag cttgaaaatt tgggaagact tcacctttca cagaatgatc 300
agttatcact aaatttcaaa tccaatgtaa attatagttt ttcccattta ttcagtttgg 360
acttatcttc tacgggttta actgaatttc caaaattatt gggaaaagtc ccaagtttgg 420
aatc 424
```

<210> 12674
<211> 415
<212> DNA
<213> Glycine max

<400> 12674

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agcttaagct ccttaaacac aggctgaatg tgtggattat agataacaca gcagatgtat 60
gttctcaagt aaagcaactt cagcagaatc tgaatgactt ggaaaattca atgtcatctc 120
agccttcgga gcagcaagct aaacagctga agaaagtcca atctgagctt tgggaaaaag 180
ctaattctta tgaatctatc atgagacaaa agtccagaag taaatggatt aaagaggggtg 240
atagaaatag ctggtatttc cataagctaa tcaattacag cagaaggaga aatgctttta 300
ggggtctgat gattgatgga gcttgggttg aagacccttc cttgggtaag gctgaggttt 360
tgcagcactt tcagaacaga ttccaagaac ctcatgtca tagacctaat ctaga 415
```

<210> 12675
<211> 433
<212> DNA
<213> Glycine max

<400> 12675

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agagatcacc tgagtgcacg cgcgctccta cctacaggag acggaccatt tttgtgttgt 60
agaatatcaa cgaccaggcc tacaagattg acttgccatg tgagtataat gtaagtgcc 120
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ctttcaatgt gtctggtcta tctctttttg atgcagatgg aggagccttg gatttgagga 180
 caaatccttt tcaagaagga gggagtgatg aggacatttg ataaaatttg gtgagagttt 240
 ctctctgggt tecttgttga accaattatc agacttatca aggtaatcct tgtggcgtct 300
 acccagactt atcttccttc attggaagtg gcgtctaccc ggacttatct tcttccaccg 360
 gaagtggcgt ctaccagac ttatcttctt tcaactggaag tggcgtctac cctgacttat 420
 cttccttcac tgg 433

<210> 12676
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12676

gtgcttcac acaagcaact ngatnnttt ttatcttctg aaagcacgaa gcaaagttaa 60
 aagttccatt caaatatcta aaaatgcatt taacagtaga taactaaact tcccttggtg 120
 ccttttagaa tctggcacia aggtatacac tgaacataat gtcaggctctg gacgcaatga 180
 gatatgaaag agatctcatc attcctctgt atgtcttttc atccacctgc tttgattctt 240
 cgtccagtcc aagtatactg gttggatgta tggggctttt attgggcttg catcgcccat 300
 cttgaacttc ttcaaaagtt ccttcacgta cttggtttga tgtatgtata tgccttcac 360
 tattttcttg atctgaagtc caaggaagaa cttcaattct tccatcatac tcactc 417

<210> 12677
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12677

agctntaaga cagnnngtta tctggtttt gtatattcaa caagaacatc ctatttcttg 60
 acattgacac cttagtattt aggttggttc tccatctct gatggaaaga cttgaattct 120
 tcatgtgaat atcatagctt tttttgagta attgtcctaa actcaaaata ttgttcttca 180
 tatttgggac gtagtaaaca tttgatatga attcatgtcc tccatcttct aaacgaatta 240
 agatcttacc tttgcctttt acatgagtct tagaattatc accaaatgag acattgccac 300

ttattgattc gtcaagatcc acgaacatgc ttcttttttc gcacatatgg ttgcttgac 360
cagtgtcaag gtaccatgtg ttttcttggc taccttcatt gcct 404

<210> 12678
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12678

ttgagccaat tcaaacgaca atatctnttt atttgtatat ctgatttgtt cccgtaatat 60
aacgagacgc tcgaaattga atgttgaagc tcttagcaaa ttcaaacgtc aataagtatt 120
tactcggatg tctgattttg tcccgtcata tatcgagaca ctcgaaattg aatgttgaag 180
ctctgagcca attcagacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcgaaatt gaatgttgaa cctctgagca aattccgacg acaataacta 300
tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgcaat tgaatgtcga 360
agctctgagc aaattcaaac gacaataact ttgtactcgg atgtctgatt gag 413

<210> 12679
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12679

agctttgata tatattcana ttaagatatt tttatattcg gatgtccgat tgagtgccgt 60
aatatatcga gacgctccca attgaaaaca gaagctctga gcaaattcaa atgacaataa 120
cttttgactc ggatgtccga ttgagttccg taatatatcg agacgcacaa aattgagaac 180
agaagctcta agcaaattca aacgaagata actttatatt cggtatgtccg attgagtcgg 240
gtaatatatc gagacgtac aaatcgaaaa cagaagctct gagcaaattc aatcgacaat 300
aactttttac tcgtatgtcc gattgagtcg cgtaatatat cgagacgctc gaatttgaaa 360
acggaagctc gtatcaaaag tcaaccgcaa taac 394

<210> 12680
<211> 409
<212> DNA

<213> Glycine max

<400> 12680

agcttcccta agggcagtaa tgcattcttt tctggcttta atacctaaat cacacaaccc 60
ccagacgttt aatgactata gatccatctc cctcattggt tgtatgtaaa aagtaatagc 120
caaattattg gcatacagac ttagcaaagt gatggttgac cttattgatg aaaggcaatc 180
ggcttttata aaggatagac acatccttca tggagctttg attctcaatg aggtagtaga 240
ggaagctaaa aggtgtaaga agccaacatt ggttttcaaa gtggactttg aaaaggccta 300
tgactcgggtt tcatgggcat ttctggagta tatgctggat aggatgggtt tttgccttaa 360
atggagaaat tggatcaatg cttgtatgca atcagccact gtatcagtc 409

<210> 12681

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12681

agctngagaa tgcaagaact tatgtgcttt tgccacgcca acggcgattt tgcagcgccg 60
ttgccaaactt aaactgttga caatttcgct taacttctcc cctcctcgt gctcgtagac 120
caagtaccct ctcttccac acctacacgt cgcaataagg ttaatgatat tcgggtgacg 180
aacctttcta atttttactg tctcttccca catactcatt ggaagtgaat tcaagtcgct 240
gatttccttc accacgaact gcatgtcggt ttccatgcac ttcccttcgt accaaacca 300
gtttgttctt ttgcacacaa cttttccttc tttaaccgtt ttcaaaacat cgtctacatt 360
gatcaacctt gc 372

<210> 12682

<211> 420

<212> DNA

<213> Glycine max

<400> 12682

agaccctgag gcacctgccg ctgcgactag ccccgacagg tgggtgattta ttgttttggg 60
gaggatcgat aactatgcct atatgttggg cctcccagaa gagtatggag tcaacaccac 120
ttttaacatt tctgatataa ttctttttgt acgtggagct gatattgagg aggatgaact 180

aactgacttg aggtcaaate ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa 240
 gggaccagtc actatagcca tgagcaagag gctccaacag gattgggcta gagctgctga 300
 agaacgccct atggtttctca tgaacctcac ggtagatttc tgagcccatg ggccaagggt 360
 gggccaatt atctttgtac atattagact aggatgtcat tatatctgat ccttgtattt 420

<210> 12683
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 12683
 tcacctgcca cacagttaag gcattatatt ttccttatat catctctgac atatttatta 60
 agcagttgtc agattaaatt atttttaagg atatattgta tatttttctt tcaaacaaag 120
 gattagtata tttacttgta agtggttttt tgtgttttaa cattttataa taaaagtaat 180
 attttctgtt aaaacattct tttcccccca tcggatcctt tagtagaaat attttagcca 240
 ctgttttagt aatgaaaccc ctcttacgat ttaataacaa atcaaatata tattattata 300
 tccaaaatta aatataaaat tgttatatat ttgtcataac tttgattggt ttaattcaga 360
 ttgctttaat tcatgttttc attttacta atttaaacac ataacttcat atcag 415

<210> 12684
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12684
 agcttatagt atcatttatg tttgcattaa caaatatatt tgcgcacaca gttatatgat 60
 cgtacctcta tatcacaaca accacagact atcccgtttc cctgtttgta acctccaagt 120
 aatttctgaa acacacatta atcatggaaa agaataaaaa tcaagtgcaa atcaacctat 180
 aagcaccaaa tgacaaaaaa tatttaaaga aaatattaag acacctgtcc tttgacatag 240
 taagccaact cagcaccatc tggtagccca tttggcataa aaagcaacct gtgtaaatca 300
 ttgtccctga taaaagcaaa aaatcaaatt caaactacag tagctaagct attgcaattc 360
 acatagagaa gctagaggaa tggaacaggc atccccaaaa ac 402

<210> 12685
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12685

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ttcttctagc cacgggagtn ataaatatta tccttgaatg tatgcaaadc ttaatcatgt 60
gagtaataac aactaatcaa gaatntagct aagcaaaatg atgacacaaa agggcaaata 120
tgaaagtaaa ggggtagtaa gacagagcat taccactttt atttgtgacc aacacaagaa 180
catctccatg aagtgatecc cttttggagg cctcgtgaat ggctctgaag ttggatectc 240
caccagacac gaatactgct agctttttcc tcccaccgt gacctgagcc gttacctcat 300
ggccctcctt tggttctgca gcactactac tactactact actactacta ctactactac 360
accatatact cctccaagaa ctagaacaca cttctntgtg cacaatgctg ataggatgga 420
cagctctgc 429

```

<210> 12686
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12686

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atggatgtat ccattgcttat tgattttctt tctgtgtatg tgacaggggg ggaaaaggag 60
tgatggggcg acacctgacg gaatacgtcc aattaactcg agatgtggcc tattacctat 120
agcacatgga agtactcttt ttacaagagg cgagacacag gtctgagcca actntatatg 180
ttttccagtt tatgctcttg atgatatctg atgggtgtcta tatatgctta tgcaagtcac 240
attatctctt ttctgtgttc gtagctttat tacaacggag atcgaatgat caaacacaaa 300
cgaggaacac aactaataat gctgactcct tggaccttaa cacacttctt attaaagtct 360
ccattgtagt cacctggata tatctaaaac tagtgttggg gtcagatttt gatactcagc 420
ta 422

```

<210> 12687
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12687

gccttgatat gagtagtggt tagagtctcg atgtattggc tgatgagtac tccagtagca 60
tatataatgt ttggtcttgt gtgtcaaata tcataaacta cccaccacac tcttgaaatc 120
tatagcatcc agttttcttg ctctgctgaa ctttgataac ttcattntgc actccatcag 180
tyttccaatt ggcttgcac tatccatctt gaatntatta agcatcttct ttgcgtagct 240
ntgcagtcaa atgaagatnt catcttcttt ctgctctacc tcaatggcaa gatagtatga 300
cattnttccg atatcggtea tctcaaactc ctccatcatt tctttcttan actctgaata 360
attgtatgcc ataagtatat ttgngattaa atcatataag aattgtaatn ttcctctcta 420
tntcttcttt ttggtgaata atat 444

<210> 12688
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12688

attctaccct ctgatccctt aacatactta atgctttccc taattntttt tacagcagga 60
ccgactactt tcaacccctc ttgaacacta aggtttaaaa tgtgagcaca acatcagata 120
tgaaaaaatt caccaccact tactaaacca ttagtatgca aaagtctttc cttcaaatag 180
tcttgcatth tatcattgga agaagcatca tctagaatta atgaaaatat tttctgctca 240
atccaccatt cttccaaaaa aaaccatata taactttagc catctcacgc cccgagtgtg 300
gaggaggaaa atgagaaana ttaaccattt taccattcaa cttccaattt gcatcaacat 360
aatgctcagn taatgaaata taacctcaga agtacaagat 400

<210> 12689
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12689

atgctagacg anatatagat gggaatagag gtaacaatgg cggtaatgac ggaccgaggc 60

agaaccgggt tgagggagta aagctcaatg ttctctccctt caaaggtaga agtgatccag 120
atgcctacct ggactgggaa atgaagactg agcacgtatt tgcttgcaat gactacactg 180
atgcgcagaa agtcaagcta gcagcagctg aattctccga ctatgccctt gtttggtggc 240
ataaatacca nagagaaatg ttgagagagg aacggcgaga ggtagatata tggactgaga 300
tgannagggt gatgagaaaa aggtatgtgc ccactagcta taacaaaacc atgcgacag 359

<210> 12690
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12690

ctactggaga gaatgtataa tatatatcga tcccaacttg ttgagtatat cctgtggcaa 60
tcaatcgagc tttgtatcta tctatagagc catccattnt gtatttcacc ttatacactc 120
atctacatcc aatatagtgc ttatcaggtg gtaatggaac aagtgtccaa atggaatatg 180
cttcaagagc ttggatttcc tcattcattg ctcgacgcca ttcangataa gaagcaactt 240
gatgataaaa ttgagattca tagacaactg anatgtgatt aatgaaagct ctgtaaaggg 300
ggctaagagg caacaaggag caataatgtt ggatgggata tgcagcctga gaatgtgaaa 360
tgacataatc agacaagtat aagggaggct tagagtggcg tgtactcctt cttaaagtaa 420
ca 422

<210> 12691
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12691

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tgccattgat cttcaagaag caaaggattt cattgatgaa gaagatccaa ggctacaag 120
ctctacatgg agctacatca tgtggtatca agagcatctt catctaagtg atgttctttt 180
gcttctctta tcttttgttt ggtcaattca ctntaattcc ttgttcttca tcatattctc 240
catgtatctc ctccattatc ttgtggtttg gttctgggta tagtagattc aaaatataaa 300

tcgataaadc ttagatctat ac

322

<210> 12692
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12692

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ctntgattct ttttctgac cgaatgaagt gatcttaac atctatatgc ttggttctat 120
caagatgaac ctgatccttg gccaaagcata taacactaag gctgtcacia tagatgttag 180
caaattcttg attaatccg agatcattta tcagacctct tagccaaatt ccttcttttg 240
caacttcagt aagagccata tattcagcct cagtagttga gagggaaaca gaaggttgaa 300
gtgttgccct ccaactcacc aagcaaccac taagggtgta agcataccct gttaatgacc 360
ttctcttgac caaatcagca gcaaaatcta catcagaata gccagtgagg cagcaatctg 420
ggtgagatcc atagatcaaa cctacatctg tagtcccttt aagatatctg annaatctct 480
tcac 484

<210> 12693
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12693

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ctcttgaatc ttcatatat agccttttta ttcatatatt tgttgtagt gagagttaat 120
tcaatcaaaa ctttatgagt cttcattaaa tgcataga cttctattat gattcctgat 180
gcaatcctcc ctangaaggg attaatcacc agagccatga ataagaggct ccaagaggat 240
tggtctagag ctgctgaaga aggcctang gttctcatga atcttangat agatttctga 300
gccatgggc catggttggg tcaacttacc ttgtacata ttagattang atttcattat 360
ntttgggcct tgtatttagg gctccataat atangtaggg tattcctata aattangaat 420
tttcagccct tgtattt 437

<210> 12694
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12694

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 actcaaattgg ggctgtccaa tcacgtgcct gaatgatatg ggtggtagtc accgcacgct 120
 tgaggtaagc aaaagcctct ntgcacgggt catcaaaatc aaactccacc tgcttttgca 180
 gcatattgga tagtggaaag gctattatgc taaaatcctt gataaagctc ctataaaacc 240
 ctgcatgacc tagaaaataa cgaacctctc acatgcaaca ggggtaacgg aatcgtgaaa 300
 taacatctaa ttaagcacgg gctacctcta tgcacctatt caaaatgata tgccttaaaa 360
 ctataccttc gtctaccatg aagtgaca 388

<210> 12695
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12695

gctgtcaatc ttttgagcaa agacaacacc ttatgcgtaa gtggatgcat cacacataaa 60
 ctcaaattggg gctgtccaat cagcgcgctg aatgatacgg gtggtagtca cgcacgctt 120
 gaggttaagca aaagcctctt tgcacgggtc atcaaaatca aactccacct gcttntgcag 180
 cagattggat agtggaaagg ctattacgct taaatccttg ataaagctcc tatgaaaccc 240
 tgcatgacca agaaaataac gaacctctca catg 274

<210> 12696
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12696

gaactttgaa gttaattcta aatgatcaaa gtgaaaaaat gcacacacat ggcctctatt 60
 tatagcctaa gtgtcacaca aaattggagg gaaatttgaa tttctattca aatttcactt 120

gaatttgaaa ttgaatttgt ggaaccaaatt tttggagcca aaatttcact aattatgatt 180
 agtgaattnt agctatggtt caatccacta atccaagatc aagtccaaga ttctccacta 240
 cgtgtgctta ggtgtcatga gccatgtaaa gcatgaagga catgcacaaa gtgtgactat 300
 atgatgtgac agtgggggtgt agcaagcaaa tgctcacctn cccctctaaa aaattaatgg 360
 atttggattc tcccaattca attaaattta tttcccaaca tacacatgac atat 414

<210> 12697
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12697

acattggaaa gttagtttac aagaaatata acaatcatta caaacaaggg ccaaacaaca 60
 cttctcatgg cactgagtgc aacatgcact ntataaaata atcatattgn ggctgtgcta 120
 ttttatgaca catacgtatt tgcacacata aaaattttgt gtgaaacatt ntacaacacc 180
 tatccatgta catatTTTTT tgacaaacct tttcaatgct acatcctata tatatacaca 240
 cattnntttg gaaggcttct tttgttacct actcaciaat acacatattt tgaanaacac 300
 ttttacgcta cccatccaac actttgtaag gcaattcatg ctatatatat tcatattatg 360
 caaggcattn tcatgtcata tgtattcata tnttgcaagg gcattttattc aacattntgc 420
 aagcatttcc atgctatata tatattcaca tatatacata c 461

<210> 12698
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12698

ctcagctntc catgaataag aaatctacac ctgttgcaag agtctgtggt ctatgttctc 60
 ctacagatca ccatacagat ctctatcctt ctttgagca atctggaatc aataagcaac 120
 ctgaagctta tgctgcaaac atttataata gacatcctca gcagcaaaac aaacaatagt 180
 agaataatta tgacctttca agcaatagat acaatccaag ttggaggaat catccaaatc 240
 tgagatggac aagtcctcca caacaacaag agcctgtccc tccttttcag aatgctacta 300

gtccaaccaa gccatatgtt cctcctccaa tacagcaaca gcaacaacaa cagtcacaac 360
aaagacaaca agcaact 377

<210> 12699
<211> 490
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12699

gataattgtt gtaactatgg ctgtggtctt tgtctattga tgaagatatt tattggagca 60
tttaatacat gtcactaact tgtcaactaa tatgataaaa caaattgctt atctttctat 120
ttttgcactt tcatatcttg tgtaagagga catataaact gttacgaacc aaattatatt 180
aactttttct tcacttttca tcactttctc catattgtat agagaataaa acattcattc 240
tctatacaac aacatatcaa attctcaaag aattaaatat gtataaatgt tgagactcaa 300
caatcataaa ctntctttgt taattctctc taatgcacgt taagacacta aatttatatc 360
ttaacattnt tntacttaca tcaaaatgtt gatgggtctt aatttatgtt atgactcaat 420
actntatact acttannaca tanagaacaa catacacata ttaacatttt atagttaaatt 480
agctcattat 490

<210> 12700
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12700

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aaaggaagac taataaggct aaggctaaaa attgcctttt ctctactgtg tcaaaaatta 120
tttttacaag aattatgaat ttcaagtctg ccaaacagat ttgggattat ctcagatcag 180
aatatcaagg ctgtgaaaga accaaaggca tgcaagtact caacttgggc agagaattcg 240
agatgcagag catgaaagag actgaaacaa ttaaaggcta cgctgaccgg ctgttangca 300
tagcanatag agtgaggctt cttgggaagg actntcctga tgaaagaata gtgcanaaaa 360
tcctggtcac tatacccgag aagtatgaat canagatatc agcattggag gagtctaaag 420

acctttcaac catcaccttg ggagaacctc ataatgtct ac

462

<210> 12701
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12701

ctcttgccctc actcacgcgc ttagacatct tagaactgat acatatgagc atttgtgggc 60
cttttccaac accttttttg aatgagtaac aatattttat ctcgttcata gatgactact 120
ttagatacgg ttacctttat ttgatacatg agaagtctca atccctagac gtttttaaga 180
gtttcaaggc tgaagttgaa cttcaacttg aaaagaaaat taaggctggtc aaatctgacc 240
atgggtggtga gtactatggt agatatgatg gatcaggaga acaacgtcca tgaccttttg 300
cgctntttct canagagtgt agaattgttc cgcaatacac tatgccagga naacctagca 360
tgaatggtgt tgcagaacga tgaaaccgaa ctcttaagga tatggtgaga agtatgaata 420
gtcattcttc ttgccatag tcacttttgg gagaagcctt anataccgca gcttaca 477

<210> 12702
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12702

ggagacacat gaacagcgct aggcaacgac tttcatggcg ctccgaacaa aggtggagta 60
tggaggattg ccttgagggc ccgcacttag gcaatcatga aactaagctc caaactcgaa 120
agtggaggac acatgaacaa ccctaagcaa taatattcat gtggctccga anaaggatga 180
gaatggagga ttgccttgag ggtcctctct tatgcaatca tggaacacag ctccaaactc 240
gaaaacggag gacacatgaa tgaaaccgca attcattcac gtggctccgg aacaggatga 300
gaatggagga tngccttgag ggtcctctct tangcaatca tggaacacag ctccaatcat 360
ggaacacagc tccatactcg anaacggagg acacatgaat gacaacgcaa ttcattcacg 420
t 421

<210> 12703
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12703

gacagcctca tgcacaacaa gccgggttcgg cgactnttta cgttccagaa tcgcggtcga 60
 gaagtccttc ttccccgatn tcttgcggtt ccaaacaaaa actccaacat caaacaaacc 120
 tcacagtcga acaagctcca tagtatagtg agcaaagaaa aagaanagaa caaaaagaat 180
 tytgaattcct gaaatgaaat caacgaaggt gcagagagtt gactcacggg tccgatgatt 240
 cgccttgctg tgacatcctt gctggaattg aagaagatga tgatcaaagt gaagaattca 300
 gaaagttcag aacctaag 318

<210> 12704
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12704

cttcttctga ttgtaatggt gntttgtgca ttactatgg ccacttctcg ccatgcaact 60
 ataccatcct ctgcatcact cacattacaa caaactgaag caaatgcttt gttgaagtgg 120
 aaaacaagcc ttgacaacca aagtcaggct ntgctatctt catggngtgg caatactcct 180
 tgcaattggc ttggaattgc ttgtgaccac accaaatccg tctccagcat aaatcttaca 240
 cacgttggat taagcgggtat gcttcaaact ctcaattntt catcacttcc aaacatcctc 300
 actctagata tgagtaataa ctcttgaaa ggaagtattc ctccncaaatt tanggtgttg 360
 caaaactcac tcattctgat ttaagtgaca atcacttctc tggacaaatt catctgaaat 420
 aactcagtgg tcagcttcgt g 441

<210> 12705
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12705

gagcgatctc gaggattcnt agcccagagg ttgttgcata gacattgtct ctgtttatag 60
 tccatttaaa aaggcattat taatatccaa atggcacaga ggccacctat ttgtgggagc 120
 caaggtgagg ataacctgga tggtttctgg ttgaccaca gtagaaaaca tcttagtaaa 180
 atcaaagtcc aaaaatttga tgaaaaactt tggcttcgag gcatgccttg tagtgataaa 240
 caaaaccatt agcattttct tttattcaat aaaccactt gcaacctata gcttgtatat 300
 gaggaaatgg tacacgcgcc caagttttct tgtgcagcan agaattatac tcatgtgtta 360
 catggcagca tgccattgag gatcccgcaa ggcaagtntg nactcttgg gacatgaata 420
 aagaatatac gagagatgcg acagggaatg ataccta 458

<210> 12706
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12706

cataagcact tagactatga aggaaagctg gagttgctgc acatgatgtc caacgttatg 60
 tcaaagaata agatcgggct gcacaatgca caaggcaaga taaagtgtca aatgaagaat 120
 tgaagctgca ggattcacga tgtcggatat aatgtccagg acatcctgcc tgaaaatact 180
 ggaattgcta aaagcattga agctgcagga tccacgatgt cggatacaat gtccaggaca 240
 tcttgcccga aaatactgga gttgctaaca gcattgaagt tgcaggatcc acgatgtcgg 300
 atacgatgtc caggacatct tgcccganaa tactggacat ataaatctgt tatatctgta 360
 acagattatt gtgcagttag caagagatta gatgatctat ctt 403

<210> 12707
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 12707

atcttcgaac tgtcatcgct tcattctcgt ggcgatagat tatttcacca aatgggtcga 60
 agcggcttct tataccaatg tcacgaggaa tgtggtggtc agattcataa agaaggaact 120
 gatttgctga tacggactcc ctaggaagat cactactaac aatggcacta atctaataaa 180
 caaaatgatg caggaaatgt gcagggattt caagatccag catcataact ccacccccta 240

tcggccaaag atgaacggag ctgtagaggc agcaaataaa aatattaaga agattattca 300
gaagatgaca gtgtcataca aagattggca tgagatgctg ccttttgccc tgcattggata 360
tcgaacctcg gtacgaactt ctactggggc aacgctgtat tccttggttt atgggatgga 420
agtgtactc tta 433

<210> 12708
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12708

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ttctaaatta atatacacia ttataaagc aagaatttct ctttgtttat cttcttaatt 120
atatatttta taattttctg ttttttctt aaatagacat ttatagtagc attagtataa 180
aatttctctc tcaactttct caaactacta ttatgttact ttatctatat atttatattc 240
ttaatcacca atctcttata tccattntt tttatcacia tgtgtgaaat gaactttgat 300
aaaaataaat aaatatcaat aattaanaaa ttatataaaa atataaatta tctactttga 360
tttcaaaata tantttatat attanaaaac gtttatntat cataaatatt aattatataa 420
caacaaacat ttattacatg tcattcacaa gttaaactac t 461

<210> 12709
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12709

cactatacaa gatntcttnt gcttcctagc ctctcatca acctcactag caatcaagac 60
tccatgtagc agctgtcgac ccttaacaaa tgcctgactgt ctttcatcaa caagatgatc 120
cagaacctta cttagcctat tagataggat tntggcaata atcttgtaaa cacatcctat 180
gagagatata ggtctgaagt gactaatagt ttgaggatcc ttgatcttag gaataagagc 240
aatgaatgaa gaattgaggc ccttangana agcagcattc acatgaaatt ctgctagaaa 300
tcttaagaaa tcacgtttca gctctttcca naactgcttg ataaatctaa nattcagccc 360

atcaggecct gngctnttgt cattgccaca agcncacaca gcagaatata tctcctcctc 420
 tntanatggc tccaccatca natecctctg 450

<210> 12710
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12710

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 ttttgatta caattntatg tatattcgat ctctttgta tcttctgggt gtnttatctt 120
 cctttgggta ttgtctgtaa gtctctaacg tgctgtttaa cttgaatgca tagatctaaa 180
 catgctgacg taactttgag aacacaaata cgaattagtt aaaaaattac atattcggtt 240
 ctagttaaaa ttatttttta tgtatgcgtt gaaatgactc gttatactca tttctgttta 300
 aaaaaatatt tattttgaac anaataacta aaaatattta atataaatta aactttaaat 360
 aatctttgtc acatgaaaag agatgtttcg ataaattatt tatgccatta atattntaga 420
 atatataaat attataattc tatatgagat taatacatga atattttacga aaaatatcta 480
 tgtagactaa atatatatatt a 501

<210> 12711
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12711

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 gacatccgag taanaagtta ttgtcgtttg aattggctcg gagcttcaac attcaatttc 120
 gagggctctg atatattacg ggactcaatc cgacatccga gaaaaaaatt attgtcggtt 180
 gaattggctc agagggttcaa cattcaattt tgagcgtctc gatatgttac gggactcaat 240
 cagacatccg agtaaaaagc tattgtcatt tgaatttgcg cagagattca acattcaatt 300
 tcgagggtct cgatatatta cgggactcaa tcagacatcc gagtaaataag ttattgtcgt 360
 ttgaattggc tcagagggtc aacattcaat ttcgagcgtc tcgatatatatt acgggactca 420

atcagacatc cgagtaaaaa gttattgtcg ttngaattgg ctcagagcat caacattcaa 480
 ttctgagcgt ctcgatatat tacgggactc aat 513

<210> 12712
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12712

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 tcgagacgct cgaaattgaa tgtaaatgct ctgagctaatt tcaaacgaca ataactttnt 120
 actcggatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga atgttgaagc 180
 tetgagctaa ttcaaacgac aataactttt tactcggatg cctgattgag tcccgttaaca 240
 tatcgagacg ctcgaaattg aatgtngaag ctctcagcca attaaaacga caataacttt 300
 ntactcggat gtctgattga gtctcgaaat ataaccagac actcgaaatt gaatgttgaa 360
 cctctgagcc aattcatacg acaataac 388

<210> 12713
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12713

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 aagataagag aagggaaatt ccagttgact acagttaaga gaaagagttg catccctaca 120
 ccagccttca gatttacctca ggcacccgaa ttggctntta ttgtaattta tcttaagacc 180
 agaaaccaac tcanagcatc tcagaatata tcttanaact ctaacattat cattagtggc 240
 aaccccaaag aacaaggat catcttcata ttgtagtata ttaacttctt cttntgtcct 300
 tcccacttga tagctgttga agagattctt agctacagct gacctcatca acccagtaag 360
 gccttccact actatattga agagcanagg tgcaagggga tcacctgtgc ttanacctct 420
 cttanggaca aattccttag aaggacttcc attaatnaa atggatattg ttgctgtaga 480
 catacacaac catttatcca tntctccat ctt 513

<210> 12714
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 12714

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ttgatgccat ctaggacctg atcgagatcc actattcatc attagtttct agagagaact   60
attccggttg agtggatcca aactccggat gaacacctct taccaccttc agacagagat  120
cctcaatcgt accctagaat aatacttgcg tgctttcggt catgacagac catctcaatg  180
gttcaagttt ttatcaatag cggagtgatc atacaacacc gcaaccattt cgggcactcg  240
gttttccccg ttttaaggtea ttttcggcaa gccccacctt tctatccac aatacttgca  300
aggtttctct ctggtggatg cagtggacaa tcttccatca actctcgagg ccattcatgc  360
cactctgcag tgcagattac ttatagtga ggcagccatg aacgccacca ttgacagtca  420
ccgtcgcgat gtccaattct                                     440

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<210> 12715
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12715

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aggatcatcg atgcgaggga ttagtcgcaa gtntgagaat atgatttaag agactttcag   60
gtgaaagaga ggagaaatat aaagaatata cgcgaaatgt ttgaaagatt cttctatcaa  120
gaagagaatt tcaattttct actttttaga aggaaattga aattccacat tnttagttgt  180
ttaaaattat gttttaaaat tccaaaattt aaattcttca taacaaaaca tccaaacaat  240
gaattgtaga ttatagaaat ttaaattctc tgataaataa ctttcacaaa ttaaaattct  300
ttatccaaag gtactctaag gcttactata aaccttccta tgtatgtnga actcactagg  360
cttgtnatcc acacttttag aagttcaata ttcacttagg atcaaaattt catacaacaa  420
ttcaatcacc aatactaata ttcacaatag ac                                     452

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<210> 12716
 <211> 446
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12716

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ctgaaattgc atattctgga tggtcatttt cctcattaac tcccttaagg aagggttgaga 120
agagttctca gctgcttggt gtctatgttg ttgtactgc tgcctgctga ttgcaggagg 180
aacatatggc ctgcttggac cagtagcatt ctggaaggga gggacaggct gttgttgctg 240
ttgttgttgt tgtagaggat ttgccatct caaatttgga tgattcctcc aacctggatt 300
gtatctgttg cttgaaagat cattaattat tctgctgttg tgttttgctg ctgaggnngt 360
ctattataaa tgtttgcagc atangcttca ngttgctcat tgactccaga ttgctgcana 420
gaaggataga gatctgtatg gtgac 446

<210> 12717

<211> 257

<212> DNA

<213> Glycine max

<400> 12717

gatcaccac ctcgaatttc acgtcttttc ttcttttgct ctgaatactc ttctgcctac 60
tctgaatagg tcttattctc tcttggatta acttgacctt cttaagtggg tgttgtagca 120
ctttacgtcc taaagtgatg ttgtcttcag gttctagcca acacaagaat gttctacatc 180
ttctatcata caaggcttaa taaggagcca ttcccatggg agaatgaaaa ctattgttat 240
agctaaactc tatcaat 257

<210> 12718

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12718

tgagattaac aatggaagca ctgagatat tcanatgggc ataacttacc acacggaggg 60
ctgattcagg cgcataatat atcgagacgc tcgaaattga acaacgaatg ctctcgagaa 120
attcaattgg tcataacttg tcacacggaa gtccaattct ggcgcatcac atatcgagac 180

gctgtaaatt gaacaccgga agctctcgag aaattcatat ggtcataact tatcacacag 240
 aggtttgata taggcgcata atatategag acgctcgaaa ttgaacaacg aatgctctcg 300
 agaaattcan atggtcataa cttatcacac ggaggtctga ttcattgcgca taatatatcg 360
 agacgctcga aattgaac 378

<210> 12719
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12719

gcttcgcat attatttgcg ccttaatcgg tcttncattn ngaaagttat gaccatttga 60
 atttctcgag agctttcggtt gttcattttc aagcttctcg atatagtatg cgcctgaatc 120
 ggacttccac ttgaaaagtt atgaccattt gaatttctcg agagcttccg ttgctcaatt 180
 tcgagcgtct caatatatta tgcgcctgaa tcggactttc gtgtgtcaag ttatgactat 240
 ttgaatttct tgagagcttt cgttggtcaa ttctgagcgt ctcggtatat tatgcgctgg 300
 aattggactt ccatatganc aagtttgacc atttgaatnt ctcgagagct tccgtgaccg 360
 ttccaggttt aaataagaag aatcacccgga cgacgccgat cgaacatttc ctaatagaca 420
 tcgtccaaat attatcgggg 440

<210> 12720
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12720

agagagagaa aagatacatg tgaagtctaa ttaaatagaa tctagcaagc aacagataat 60
 tccaaacaca aaattcaaca aaatgataac tattggagtt tccagtgggtg gcaggcgaaa 120
 aagaagttaa ttagtgacga gaatactacg atccatctat tccttaccaa gtcgagcaag 180
 ccggttgacc caacgagggg ttgactttcc ggtcaatttg agacaaacat cgttacagaa 240
 atgggtgcaa ttcttggaag tgagatggta ggtattgccg gaataatctt gagctagctt 300
 ctccatgaat gtcgaacat ccttggcacc cagatctggt gttccgatga anattgactn 360

tctgaagggtg aaccacagggc agtggttcgg ttgaacttgg anaatccccg ttgtgtcgtg 420
 ctcggttcgca ccanatccat attccagccc atgaactana gaagaaaaga aaaatttaat 480
 ttaataatta tcaac 495

<210> 12721
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12721

atcttgtgtc acgtcctctt canagctata ccctatgtgt taataactca agaaatagtt 60
 catcaaatgc ataagaagaa gaaaggggaa aaagggtttg tcatgttcaa aattgattnt 120
 gaaaaagctt atgataaagt agattgaaaa tgtctgagaa tcaccttag tgattntgga 180
 ctccccaaa agattattga cattatcatg aattgcacct tctccacgac tttgtctatg 240
 aaatggaatg gagaanagct taatattttt aagccttaga ggtgtcttag atagggggac 300
 cccgtgtttc cttatttgtt tgttctttgc atggaanagc tgtcattgct tattcaatga 360
 aagtgcanga gaaaagttgg ttgccatta taatttttca ccatggctct agtatttctc 420
 atcttttcta tgt 433

<210> 12722
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12722

tcctcgaagc catctcctgc gatgacaaca ttggaaagtt attttacaag aaatatacca 60
 atcattacaa acaagagcca aacaacactt catatggcgc gagtgtcaac atgcacttta 120
 taaaataatc atattgnggc cgtgctattt tataacacat atgcatttgc acacataana 180
 atttggtgaa aggcatttta cgacacacat ccatgtacat attttttgac aaaccttttc 240
 atgctacatc ctatatatat acacacattt ttnttttgaa ggcttctttt gctacctact 300
 cacaaatata tcacaaatac atatgntttg aaaaacactt ttacgctacc catccaaaca 360
 ctntgtaagg cacttcatgc tatatatatt catattatgc aaggcatntt catgcgatat 420

atattcatat tntgcaaggg cattttattca acatntcgca aggcgtntca tgctacatat 480
 ntacatacat acatattat 499

<210> 12723
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12723

tctatagaag gtctgttctt aattttctcta caattgcac acctctcaat gagctgggtga 60
 agaagaatgt ggaatttacc tgnngtgaan aacaagagca agcctttgct ntgctcaaag 120
 aanagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaagggtggg caccctattg 240
 cttatttttag tgaanaactt catagtgcc cctcaacta cccacctat gataaagagc 300
 tttatgcctt aataagagcc ctccatactt gtgaacatta ccttgtttcc aaggaatttg 360
 tcattcatag tgatcatcaa tcaacttaagt acattagagg gcaaagcacg ttanacaaga 420
 ggcattgcaa atgggtagag tacctagagc catntccata tggttat 466

<210> 12724
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12724

ctgaaggaga actngatgcc ttgggtcaacc tagtaactca gctttccatg aatcaganat 60
 ctacacccgt tgcaagagta tgtgggtctat gttcttctgc agatcaccat acagatcttt 120
 gtccttcttt tgccttctt tgcagcaatc tggagtcaat gagcaacctg aagcttatgt 180
 tgcaaacatt tataatagac ctcttagca gcaaaaccaa caacagcaga ataattatga 240
 ctttcaagc aatagataca atccaggttg gaggaatcat ccaaactga gatggataag 300
 tctccataa caacaacagc ttgtccctcc ttccagaat gatgttggtc caagcaagcc 360
 atatattcct cctccaatgc agcaacagca gcagcaacaa cagtcacaac 410

<210> 12725

<211> 435
 <212> DNA
 <213> Glycine max

<400> 12725

taatcttacc tccttgagat aataagctag agcttagcta cacacacccc actaatagtt 60
 aagctcacct ccatgctcaa atacatgaaa ataccacaaa gtctctacta tatagactac 120
 tcacaatgcc cttaaataca aggetaaaa cctatactac tagaatggcc aaaatacaag 180
 gcccaaaaaga aggaagacct attctaatat ttacaaagac aagtggaccc aaccttgacc 240
 catgggctca caaatctacc ctgagggttca tgagaatcct atggccttct tcaacagctc 300
 tateccaatc ctcttgagac ctctacttta tggtcttagt gatttggtccc tctctaagga 360
 ggattgcac atcctcttcc ccttgaagag gatttgacct caaatctgtt ggtgtctcct 420
 cctcatcatc agctc 435

<210> 12726
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 12726

tcttatccaa ggcacattct tgggtggtgat tctccttctt ccatggctta ttccttagtg 60
 gatggcacct cctctcacat cttctccttt gtcttccgtt gcatctccat ggtggaaaat 120
 caccattgaa ggacctcact gaagctcaaa gatccagcct ccatagaagc tccaaaagca 180
 aacttcattc aagtgggtatc acgagcctac cccccaaggg cattggatag aagactccaa 240
 gaagattatg ccagagatgc aagagaaggc cctaagggtc tcatgagcct tacggtagat 300
 ttggggccca tgggctaagt atgagccac ttatctttgt acatattaga ttaagatttc 360
 attatttttg 370

<210> 12727
 <211> 261
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12727

atgccttggg ttacctggta acccaactgg ccatgaataa aaaatctgta cttgtcgcca 60

gactctgtgg tttatgctcc tctgccgacc accacacgaa cctttgccct tctatgcaac 120
aatctgaagc aaatgaacag cctgaagctt atgctgcaaa catctacaac agacctcttc 130
aacctcaaca gcaaaatcag ccgcaacana acaattatga cctctccggc tacaggtaca 240
atctcgggtg gaggaatcat c 261

<210> 12728
<211> 369
<212> DNA
<213> Glycine max

<400> 12728
agctatacta tgcagagaat atccaataat tataccttca tctgacttag catcaaattt 60
tctaagtta tcttttccat tattcaatac aaaaacattt acaaccaag atatgaagat 120
gtgagatgtt tggttttctg ccattgaaca attcatatgg agttttcttt aaaatgggtc 130
ttattaaagc cttatttaaa atgtagcatg tagtgtaac ggcttcagcc caaaagtatt 240
ttggaagagg agtatcattt aataaagttc tagcaatctc ttccaaagat ctatttttcc 300
ttttaacaac accattttgt tgaggggttc ttggtgcaga aaagttatgc tcaatctcat 360
gcttatcac 369

<210> 12729
<211> 359
<212> DNA
<213> Glycine max

<400> 12729
ttgttctatt gaattgatgt tatgtttgtt aatttggtat ccatgataat tgagctatgc 60
aatcttattt gttgctcctt ttttttggtt cattggcata tggcacattg ttgttgctca 120
tacttttctg tctctaaatg ccattgatgt tgtttcaga cccccgtgag tcagagactt 180
tccggccatt agacatgcat catgggatgg aagttcgctt tggctctatct aagggaccag 240
tgtaccaag tattatataa ttaaatttga ctgttattct agtaccagaa aacagtattt 300
tgtgatcgaa gcttcttgtt attcattaaa atggaagtgt ccgaggattc tccatatgt 359

<210> 12730
<211> 302

<212> DNA
 <213> Glycine max
 <400> 12730
 tctcgatata ttatgcgcct gaatcggact tccgtttgaa aagttattac catttgaatt 60
 tctcgagagc ttgggttttt caatttcgag cgtctcgata tattaagcac ctgaatggga 120
 ctgcgggggg acaggtatga ccttttgaat ttctcagaag ctcccgtggt tcattttcca 180
 cttttcgtat tatatggccc ctgattcgaa ctccggggg aaaggttatg accattggaa 240
 tttctcgaga gtttccgatg ttcgatttcg agcgtctcga tatattatgc gcctgaatcg 300
 ga 302

<210> 12731
 <211> 323
 <212> DNA
 <213> Glycine max
 <400> 12731
 agcttctcga atattatgcg cctgattcag acttccgtta caaaagttat gaccatatga 60
 atttctcgag agccttcgtt gttcaatttc gagegtcttg atatagtatg cgctgaatc 120
 ggaacttccgt gtgataagtt atgaccattt gaatttgctg agagcttccg attttcaatt 180
 tagagcttct cgatatatta tgaacctgaa tcggacttcc gtgtgacaag ttatgaccat 240
 ttgaatacct agatagcatt cgttggttcaa ttctgagcgt gtggatatat tatgcgcctg 300
 aatcagactt tcgtgtgaca agt 323

<210> 12732
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 12732
 agcttccctt tctttggcca atgctgtact tgtttggcag tgatttcctt ggcaatttga 60
 tgctcaaaaa cagcaatatc tatcactcca tcagtaggtc tgcccagata cttgttaatc 120
 acagcagggg agaatttaac acactttcct ctgacaaaca ccttttgata ctcatcactt 180
 tttctgttac atatgtcaga gggaatgttg acaatgaatt ccttgactaa gccttcatag 240
 caatctccca acttgctgac agtcttcagc agtccagcag ccttgatgag gtccatgac 300

tccttgcaat ccaaggcatc tcttcccagt tctctctcaa ccgcaagtct gcgttgatac 360
 acatatttcc acttttcaac a 381

<210> 12733
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12733

ttaagtcacc tgcngcatgc agcacatggt aagaactagt tggtgtatct tctctttatc 60
 attcattctg gggttaagaa atggaaggga tttaagaagc atcaaccttt tgcttctggg 120
 aatttgatgt gctctgaaat cccatcaata ttagtgtaat actttatagt tagccatttt 180
 tttcttttta aatttaaagt aaagcgtgat tgacttggtg ctgggttttg atggtgagct 240
 gacatttaat gtgcttgga tcatgcagat atattgtatg attcatgggc tccggcgatg 300
 acagctagtt ctatctgcat caatattctc tcaatgcttt cacgctcaac cacaagggt 360
 gtgaaatttt ttaccatgaa tcatgcattt tctaatact tttgcgctat gatgggatac 420
 t 421

<210> 12734
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 12734

tgcacgaaat tgatcaaaac ctgaatccca gtctctaat gtgtcatctc tcaatagatt 60
 atccgatgat tcgctgcgga tatgagcatt ccaagatggt atatgggggt gatttgcacc 120
 tttactgtgg ttcttctctt gacgcggtaa gaaccgggca atttcacctg cttaaactctt 180
 catagaatcc acaacatctt ggatgggtaa ttcaccgagc ttttccaacc agatttcaca 240
 ggtggcatat attggaggac catacattct taggagtgga cggtgggggc tcttttctt 300
 gcctggcttt tgtttaagag aaacacattt gtgcagccat ccatttatgg cctccagata 360
 ga 362

<210> 12735

<211> 344
 <212> DNA
 <213> Glycine max

<400> 12735

tatagaccat attgagataa aagagtgcc ccttatgtgc tgtgtaatgg ttagggaggg 60
 cacccaagtg ggctcccttg gtaaagcgat atactactac caggatggca atatatccct 120
 atgaagaagg gaggccagta atgaaatcca gtgatagatc ttgccacaga gaagttgtaa 180
 tgggcaatgg ttagagtaag cccgcaagtc tcttagtctc atattttact tgttggcaag 240
 tgggtgcacag gcatatgaat tgtttgacat tcgcacgcac attggcccag tagaatttct 300
 tatgcactcg atgaagggtt cttggcaaag ttaaatgact acca 344

<210> 12736
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12736

cagcttgnta aatggtacaa gcttttttta ttaattatat aagatattct tattcaaaag 60
 tttgttgaat atctgtgtca tgcgcttaat tagcgcttga tatttcaaaag gtaaggaaag 120
 cattaaaagg cttctataga ttgaaaatat ttgaatttaa tttcttaaaa tttcaaaacg 180
 aatcgatat gttgcaagaa aaaattgatt aaatctattg tataattgaa cgagcacgtc 240
 aaatacttaa aaactgttaa ataaaatcta aaacgtgcta gtcacactca ctaacatgaa 300
 aaaatatatc ctgatcttga gacattcact aaacagaaat ttaaaatata tgattctcta 360
 taatatactt aatcagtatg tacatttttt taatat 396

<210> 12737
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 12737

tcttatccaa ggcaattctt ggtggtgatt ctcttcttc cttggcttat tccctagtgg 60
 atggtgcctc cctctctctc ttctcctttg ccttcaactg catctccatg gtccatagaa 120
 gcttcacaag aaagcttcca tcactaccgg ggaaggggag tatgctgatg aaatcttctc 180

ataaccacaa atgagatttt ggatgtagc gtttcgtttc taaatgacca tttagaggaa 240
 aactgggtt caacaaaaat agaagaaaat cactcaaagt gtattaatct cacacgggta 300
 agtggttcat cctaattccg aaccatagat atgccatgac ttgatcttgc aaatcatttc 360
 ctatca 366

<210> 12738
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 12738

ctcgagagct agcgttggtc aattacgagt gcctgtatat tgatgcgcct gaatcggaca 60
 ttcgagttaa aagttatgac catttgaatt tctcgagagc ctctatggt taatttcgag 120
 cgtctcgata tattatacgc ctgaatcgaa cctcagtgtc aaaagttatg accatttgaa 180
 tttctttaga gcatccgatg ctcatcttcg agcgtctcta tatgtgatga accttaatcg 240
 gacctccgtg tgaaaagtta tgaccatttg aatttctcga gagcttccgt tgttcaattt 300
 cgagcgtctc gacatattat gcgcccgaat cggacatccg tgggaaaagc tatgaccatt 360
 cgaatttctc gagagcttcc gttgttcaat ttcgagcg 398

<210> 12739
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 12739

tgtaacacat tacagctcaa attgcggatt gatggatgac agaatacagaa tctgcctgat 60
 cccaaagata tcaaatgctt ggaaaggata ggcagtgtaa atgttgaagc tgattccatc 120
 tacgaacttt acaaggatcc cagccctata atggaacctg gttctgtttg gaaagacatt 180
 gttctttcac cttcaaggta taataatgat cagaaggaat tgaaggaatt cattcagaaa 240
 atagaaacat ccatcagaaa acggtaacca ttgatattgc tgcattgat tttcctccca 300
 aagccaagtt ttggagtatc taacaaagtt tgagttacca agttttgtat ctgctattcc 360
 ct 362

<210> 12740
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 12740

tataacaaga atattttggc ctttttcaca gcttgatggt cgcgtcaaaa ctttgcaccc 60
 taacatacat gggggtatcc tggctcgaag ggaccaaaaa catcatatcg aagccctcag 120
 tactcatggg artggtaagt tatgttatta gctgttatta caagtacgtt gtgctagaaa 180
 tttgttgtgt tacattagag ttgtgatcat tcagtttgtg agattgtatt tttttgcttt 240
 tgcttaaagt tttccttttc aggtactttt gatgttgtgg tggatgaacct gtacccattt 300
 tacgataaag tcacatcagc tgggggcatt gaatttgagg atggaattga aaatgttgac 360
 attgg 365

<210> 12741
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 12741

tgaaattgaa caacggaagc tctcgagaat aaaaaatggt cataacttat cacacggacg 60
 tgcgattcag gcgcataaaa tatcgagacg ctcgaaattg aacaacgaat gctcttgaga 120
 aattcaaag gtcataactt gtcacacgga tgtccgattc agctacataa tatatccaga 180
 cggtcgaaat tgaacatcgg aagctctcga caaattccaa tggtcataac ttttcacaag 240
 gaagcccgat tctagcgcac cagctatcga gatgctctga attgaaaacc ggaagctctc 300
 aagaaattca aatggtcata acttgtcaca cggaagtccg attcagacgc ataatatatc 360
 aagat 365

<210> 12742
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 12742

ataacttatg acacagaagt ccgattcacg cgctaatat attcgagacg ctcgaaattg 60
 aacaacgaaa gctctcgaga aaatcaagt gtcataactt ttcaaacgga agtccgattc 120

agggtgcataa tatatcgaga cgctcgagat tgaacaacgg aagctctcga gaaattcaaa 180
 tggtcataac ttatcacatg gaagtcgat taaggcgcat aatatatcga gacgctcgaa 240
 attgaacaac ggacgctctc aagaaattcc aatgggcata ac 282

<210> 12743
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12743
 tcttggaat cctcattcca gcatcagtc tagtttttgc gtaagagctt gaacaatggc 60
 tcacaaatgg cggtgagctg cgatatgaat ctggcaatat aattcaagcg tcccaggaaa 120
 cctcggactt gcctctctgt acgggggttct ggcattctca ggatagcctt caccttttctg 180
 gggctctacct ctatcccttt ctggcttaca atgaaaccaa gtaatttccc tgatttgacc 240
 ccaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300
 ttccgcaggt tgacaagggtg ttcttctctg gatttagatt tagcaattat gtcgtccacg 360
 tagacct 367

<210> 12744
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 12744
 attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 60
 aatggccaac ttgtccaca aagtcctaca aaaatggctt atgaacttag agtcctatc 120
 actaacaatg ctcttggca aaccatggag tctcacaatc tccttgaaaa acagatcagt 180
 ctcatgggaa gcataatcaa cttttttact tgggataaaa tgagccatta tataaaacct 240
 atcaacaacc actaaaatgg aatctctacc a 271

<210> 12745
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12745

tacattcaat ttcgagcttt tctatatatt acgggactca atcggacatc cgagtaaaaa 60
gttattgtag tttgaatttg ctcaaggctt cggattacca tttcgagcgt ctcgatatat 120
tacgggactc aatcggacat cagagtaaaa agttattgtt gtttgaattt gctcagagct 180
tctgtattcc atttcgagca tctcgatata ttacgggact caatcagaca tccgagtaaa 240
aagttattgt agtttcaatt tgcacagggc ttcggtatcc catttcgagc gtctcgatgt 300
attacgggac tcaatcagac atccgagtaa aaagttattg tcgattgaat ttgctcagag 360
cttctacatt caatttcgag cttttcgata tattacggga ct 402

<210> 12746
<211> 361
<212> DNA
<213> Glycine max

<400> 12746
tcgcacttga taatggagac acatgaactg cgcttagcaa tgacattcat ggtgctccga 60
ataaagggtgg agtatggagg attgccttga gggctccttc ttatgcaatc atggaacaca 120
gctccaaact cgaaagtggg ggacacatga acaaccctaa gcaataacat tcatgtggct 180
ctggaacagg atgagaatgg aggattgcct tgagggctct ctcttatgca atcatggaac 240
acagctccaa actcgaaagt ggaggacaca tgaacagccc taagcaataa cattcatgtg 300
gctccggaac cggatgagaa tggaggattg cttcaaggt cctctcttat gcaatcatgg 360
a 361

<210> 12747
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12747

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tgcttttata gactcttcat gtctgggtcaa gaaaccatt ggaagagtta catcttctga 120
tttttattca aaacttgtca ctggtaatcg attaccaaaa ccatgtaatc gattacacaa 180
agcattttat gaaaggatgt gactcttcac aattgatttt gaatttcaac gttcagatac 240

actggtaatt gattaccaat atcttgtcat cgattacacc attttgaaat caattggaac 300
 gttgtaaatt cagttaanag cttttgaaat caaactttgc cactggtaat agaatacagg 360
 aaactggtaa tcg 373

<210> 12748
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 12748

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 tcaggatggg aggatttgat ttttattcca ccaggaaaaa gtcgctctca acacatacaa 120
 gaacttaatg aatgattccc aggggtgcgaa ttttaagctaa ccatgatttc atgtggtttt 180
 cttgagcaaa ttggatgtta ctgttgtgac aatttagtcg gctggtgaga tgctaggacc 240
 tctgtcttca aatagttgtg ctcttccttc tgaggcgaat actgcactaa gattctcagt 300
 ggatataagg taaatgtgta tgtgagagga cgtaaacgct aacatacatt tcaattaag 359

<210> 12749
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 12749

tgagaatgga gaattgcact aatcaatctc tacgcatagc tccaaactcg aaggtggagg 60
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 cactaagcaa tcaactacga tagctccaaa ctggaagggtg gaggacacat gaaagataac 180
 gcaattcatg gggctccgaa aagattgaga atggagaatt gcactacgca atcactacgc 240
 atagctccaa acgcgaagggt ggaggacaca tgaatgaaaa cgcaattcat ggggctccga 300
 aaagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcaaa 358

<210> 12750
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 12750

tcaattggag tcttgtcttt tacaaactta gttggacatc tgttgagtat gtaaacagca 60
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 catctccata actatgtgat tctttctctc ggacactcca ttttgttgag gagaatatac 180
 gactgtaagt tgtcgcctta tgcccttcac cttacaaaat ctttcaaact cgcgagaggt 240
 gtactctttg tcgcgatcac ttcttaatac ttttatccgt tttccacttt gattttcagg 300
 aagggccttg aactttttga atactccaaa gacttctgat ttttctttta gaaaatatac 360

<210> 12751
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 12751
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 caaggaaaat atgttctatt gtgttgaaat ttaagattt ttaattaatt atgcacatta 120
 tctttatatt aatcaaatta attgagatat aatttatatt ttaaaattaa aattaaatac 180
 attagatcta aggtaccatt tataagatta attacctaa ttattacatg aattgtctgt 240
 attaatagta atcaaattat tttttttgac aaaataatac aattaattat gatactcatt 300
 attttcataa ttaatttgag tataattaag aatgataatt ttcgccatca ttaattcaaa 360
 cataaattac acaaggtgac gtgtgagggg gacgttattt aattaataa 408

<210> 12752
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12752
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 ggtattgtgg cgaaggagaa gaagcagaga cttgtgacga tgctcgagtg cgacgaagac 120
 gatgctcgag cttagacaaa acgatgggtca gatggagaac agacagcttc aaggtacatg 180
 gagaacaaag agagcaagaa agcttagatg gagaagaaga catcgagaag gagaagacaa 240
 cgcaaaggag acgaaacata cctaggtatg gtggcgaagg agaagaagca gagacttgtg 300
 acgatgctcg agtgcgacaa acacgatgct catatgcaga tagggacctt gaaggtagac 360

ggagatt

367

<210> 12753
<211> 398
<212> DNA
<213> Glycine max

<400> 12753

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cytcattaag aactagcttt tttcttcttc tattgccttt agttgaatac acctttgttt 120
ggttctctat ttggttctta accctctcat gcaaattctt tacaacctat gacctaaatt 180
gcccttcttt atgtataaaa gaaggggtcca gtgggagggg aatgaggtct aacgggtgtta 240
ggggattgaa cccatagaca acctcaaaag gggattgctt ggtgggttcta tgaaccccc 300
tyttgtaggc aaattctaca tgaggaagat actcatcttc agacttatgg ttacctttca 360
gaagagccct taaaggggtg ataaagacct attcacta 398

<210> 12754
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12754

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tcaccgtcat taagaactag cttttttctt cctctattgc ctttaggtga atacaccttt 120
gtttggttct ctatttggtt ctttaacctc tcatgcaa at tctttacaac ctatgacct 180
gattgccctt ctttatgtat aaaagaaggg tccagtggga ggggaatgag gtctaacgg 240
gttaggggat tgaaccata tacaacctca aaaggggatt gcttggtggt tctatgaacc 300
cccctgttgt atgcaaattc tacatg 326

<210> 12755
<211> 398
<212> DNA
<213> Glycine max

<400> 12755

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tgctcagaaa catcaatata tatcaactcca tcagtaggtc tgcccaaata tttgttgatc 120
 acagcagggg agaataaac acactttcct ctgacaaaca ctctttgata atcatcaactt 180
 tttctgtttg atatgtcaga gggaatgttg acaatgaatt ccttgactaa gccttcatag 240
 caatctccca acttgctgac agtcttcagc agtcctgcag ccttgatgag gtccatgac 300
 tccttgcaat ccaaggcatc tcttcccagt tctctttcaa ccgcaagtct gcgttgatac 360
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<210> 12756
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 12756
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 gttatgcact taaatcggac atccgagtga aaagttatga ccatttgaat ttctcaagag 180
 cttctgtttg tgaatttcga gcatctcgat atattatgtc cccgaatcgg acattcgaga 240
 gaaaagttgt gacaatttga atttctatag agctgtcgag gttcaatacc aagtgtctcg 300
 atatattatg cgcctgaata tgacatccga gtga 334

<210> 12757
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 12757
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 gaatatggag tagaagagaa acttaacaga aagtaaaagc ggaaattaaa tgcacagtgg 180
 aaagtaaaag agtagggaag aaggaaacaa acacacaagg atttttatac tagttcagca 240
 caaacccgtg cctacctcca gtccccaagc gacctgcggt ccttgagatt tctttcaacc 300
 ttgtaaaaat tctttttacaa gcaaagatcc acaaggatat tacccttcc 349

<210> 12758
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 12758

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taacaaatgg acctgggtgt tgcccagttt catcatatct tccgtaatac ttatcacctc 60
tataatatct aataattttc acatttatgt ctaattgcc a ttttacttca ttgtagtaaa 120
tttctaaggc atccattgcc taagaaatct cgggcaataa gtagacataa ccgtaacgtg 180
aataatcatc aataatgggtg ataaggatc attcctttcc gaaagaacta acatcaaaaag 240
gtccacaaat atcagtatgt acaatttcaa gaagctgagt gcttcttgta gctcttttct 300
ttgtatgttt ttgcttgttt tcccttatac aaccacaca aatatttaga tccataaaat 360
ctagataa 368
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<210> 12759
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12759

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ttctctttat atcaacacgg tctataataa aactctattc ctgttcaaag atttcttttt 120
cgattttcaa catacaactc gtggtttata caaaaaactt ctttatatac actcattgct 180
cacacacaag aatttctttt cagcattat ttacacacac acaaaatctt tccatacaact 240
ttatatatag acacgacatt tgttcacaac gctcttttct tttttttttt tctttttttt 300
tcggcggtat catgattttt gttcgtttta ttnttaggac aatgttccta aaggaaaact 360
ctacaagggt ccggaatttc aacaaacatt atcaacaata acg 403
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<210> 12760
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 12760

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agcttcaaca tcagaccact tccattgtgc tggaactact ccacatggat ttgatggggc 60
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ctatgcacgt tgaaaagcctt ggaggaaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagatttac ctgcgtcaac tttttcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcagggttca ctgaattctg cacatctgaa ggcattcactc 300
atgagttctc tgcagccatt acaccacaac agaattgggat agttgagagg aaaaacagga 360
ctttg 365

<210> 12761
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12761

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gtccgattca ggcgcataat atatctagac actcgaaatt gaacaacgga agctctcgag 120
atattcaaat ggtcataact tatcacacgg atgtccgatt caggcgcata atatatcgag 180
acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa cttatcacac 240
ggaagtccga ttcaggcgca taatatatcg agaagctcga aattgaacaa cggaagctct 300
cgataaatnc aaatgggtcat aacttgtcac acggaagttc gattcaggcg cataatatat 360
cgagacgctc gaaattgaac aacggaagcc ctcgagaaat tcaaattggc ataacttggt 420
aca 423

<210> 12762
<211> 580
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12762

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acatttctg agcaggtagc agcagttatg caagtgggat cagcaacttc cattatcaga 120
gtaatcaagc acagcggaat ctgtagtcta gacaagttgc aagtcgtttc caggatgtca 180
agacatctca catgacatct gctttctgct tctgctcccc ctgtctccat gcttactgca 240

gcattttcta tcagctacta gtctttctcca ggatgtcaag acgtctcctg tgacatcagc 300
tatctgctcc cctgtctcc atgtctttac tgcagcatct tctagtagct tccatcagtc 360
atcatcagca gcagcagtct cccctcaaaa atcgtataca tacaactccc cctcaaaaac 420
atgaatcatg catacatcgt atcctactgc catacatcat acatagtatc ctactactca 480
naatcatgca taatagcaag cataatacta ttactcccc tttttagaca gaaattgaca 540
aaagtagaat gcatgcaagc attaatgtgc aaatattaca 580

<210> 12763
<211> 435
<212> DNA
<213> Glycine max

<400> 12763
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cctgcacctg caaaaacacc ctgaactcgt cgtcttctct gatcaccgga tgcgtcgcca 120
gccgccgag gtactttctcc agcgccattc tctctgctc caggaactcc tgctttctgca 180
tcacctggct ctccaccacg ctcttgctcg gcccgggcgg gatgaaaaac ccgcggtacg 240
cctctgcgag ccgatcagag agcgtcacca cgtcacgga ccgccgccgg accgcgaaat 300
cagcgccgga ggcgccgaat tcttgaatgt tcgtctcgtg gtgaccaagt atgtcacgta 360
actgttgcta ccaggaacaa tagaattcga tgattcttgc tctttgacag ggttcgaaac 420
ggttatcttt agata 435

<210> 12764
<211> 618
<212> DNA
<213> Glycine max

<400> 12764
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tttcataagc tcaaataaac cttgtacgat tttatttta caaacctgcc ctaatgctat 120
aaatgattta tggcatgtat gcactgaaaa aatattgtgc ttggattctt catataagtt 180
ctttatactt ctaaattttc ttttagcttt aatttctggt ttttccccct aagcattttg 240
attctgtatt tctatatcat ttgcaatata aggtgtacat aaacttacac atatctagga 300

gtgaagggtta tttacttggt agattgggct tttaccaacc atgcctactt atgttaagtt 360
 ataactgata atgattgagc aagggtgcat gagttgtaag cttcctgata ttatctttga 420
 ttctacaaa taacaatata ataattgata atgatttgaa actattgttt atttagtgg 480
 ctacttctcc cacgatggta gacatttctt aatgggtatg taatacaatg agtttttgtc 540
 tataagttgg ccgaatacac aatcatagtg tcttattgac atgctctgat tttctgtgca 600
 tacctatggt ctcacct 618

<210> 12765
 <211> 614
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12765

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 ggtattggct gcaacccaaa ggagctcagc gtcagtgagt taggaagtct cacttggtgt 180
 ttcttccaaa agattgatga tcttattggc atttagagag atgttcatgc cctgacatg 240
 ggaactaatg cacaagttct aatttaatta tattccattt ccttacataa ttntttgttt 300
 ggggcaattt cttatgtaaa ccaacatcta gaacttttat ttattattct atcattttca 360
 ttgttttact atttcaactga caaaggcttg cattcttgat gagtattcaa agtgctttat 420
 agtttatatt atcaataatt ttaatttaaa actattaata ttacttttnt ttgtagaagt 480
 tggatatatt acaaaattca ttgttgcca aattgtgttg attaacataa aattttat 540
 taaaaatatg aaattttata cattgttgtc atgaaaatga aatttttggt taaaaatata 600
 agaaaaaata tttt 614

<210> 12766
 <211> 521
 <212> DNA
 <213> Glycine max

<400> 12766

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 aaattgagac ttgaacctct aagaaaattg aaacgataat aactttatac acggatttcc 120

gacagattgc cgtaatatat cgagacgcat taaattgaaa aaagaagctc gtaggaaatt 180
 cgaacgacaa tatgttttta ctcatatgtc cgattgagtc ccgtaataaa aaaagacgct 240
 cgaaattgag agcagaagct ctgagcaatt tcaaacgaca ataactttat actcgaatgt 300
 cctcttgaga cccgtaatat atcgagatgc tccaaattga aaatggaagc tcgtagcaaa 360
 tttaaacgac aataaatata tacatggatg tccgattgag tcccgtcgta tatcgagacg 420
 cttcacattg agaacggaag gtcgtataca attcaaacga cgattactat ttactgggat 480
 gttcgactga gtctcgtagt atatcgacat gttcatatt g 521

<210> 12767
 <211> 545
 <212> DNA
 <213> Glycine max

<400> 12767
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 gccaaacaaa gtcagggttca cgataactcg cctgtgcttt ttcttccatg ctatatgtag 120
 caaagtgatt gatccagtaa tgtttgatga gttggaaaat gaggccgcaa ttatactatg 180
 ccagttggag atgtattttc ccctgctttc ttgacatca tgattcactt gattgtgcat 240
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 cgatacatga agatcttaaa agggatataca agaactctat atagtccgga agcatctatt 360
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 aaagttgttg ggcttcctga gtgtcgcat gatgacagag tgggtggtaa gggttcaaga 480
 ggactgcatg tgatcactcc aagtgtagaa gatttgttac aagctcactt gtatgtcttg 540
 acaac 545

<210> 12768
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 12768
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ctccagattt acctgggtca actttatcag agagaaatca gaaacctttg aagtattcaa 180
agagttgagt ctaagacttc aaagagaaaa ggactgtgtc atcaagagaa tcatgagtga 240
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gactttgcaa gaggctgcta gggctcatgt tcatgccaaa gaacttcctt ataattctctg 420
ggctgaagcc atgaacacag catgctacat ccacaacaga gtcacactta gaagagggac 480
tcctaccact ctgtatgaaa tcttgaaagg gaggaagcca actgtcaagc acttccacat 540
ctttggaagt ccatgtta 558

<210> 12769
<211> 534
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12769

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tactcggatg tctgattgag tcccgtata tatcgagacc ctcaaaattg aatgttgaag 180
ctctgagcca attcaaacga caataacgtt ttactcggat gtctgattga gttccgcaat 240
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atatatcgag accctcgaaa ttgaatgttg aatctctgag ccaattcana cgacaataac 480
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<210> 12770
<211> 516
<212> DNA
<213> Glycine max
<400> 12770

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 gcaacaaata atcaaacatc taacataatt actaataata tatagatata tatatcaggg 180
 tgttacacta cctgcaatth ggagccctaa atacaagaac caaaagtaat gaaaccttaa 240
 tetaatatgt acaaagataa atggggtcat acttagccca tgagctcgaa atctacccta 300
 aggtcatga gaatccaagt gcctttctct gcctctctag cccaatctac taggagtctt 360
 ctatccaatg cccttgcagg gtagaattgc atcattccct ccgccttgaa aaggatttga 420
 cctcaaatcc agaggttctt gaaactcttg gcttttttcc tcaacaccta gatgaagatg 480
 ctcttgatac tacatgatgt aaactccatt ggagct 516

<210> 12771
 <211> 634
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12771

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 tccatcaata aaagtttctt tgattcaaga aaggataaac agtggatttg gctataaggt 180
 ttcgtaaaaa aaagcatgat gacgaagcaa aaagctattt caattgaata tggagattgg 240
 gaagagtcac atgccaaaact ttcattgttg ctaaaacaca tgcaaaataa ttcttcttga 300
 ccctattttc aaatatgtga tgatgatttt attgttggga atcgggtgag tegtgaacac 360
 cgtcaatttc ataanagtat ttgggcattc ggtcaatgta aaaagacttt taattattgt 420
 aagtcaatca tacaagttga cgacacacat ttatacggga aatatcgttg gaccagtta 480
 atggccacat cacaagatag aaatggtggt gttcttcttc tagcattcgt cgtagtcgaa 540
 ggtgaaacgt taacagcgtg gtcattgggt ttgacacatt tacatgaaca cgtgacagat 600
 aanaatggta tttatctcat atttgatcgt catg 634

<210> 12772
 <211> 699
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12772

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atatcttaaa aattataatt tgacatccta aaatatttca aatttataat tactatatca 180
ttattaatta ttacatccat aactatcatc atcatgatgg tcaaccgtct ttattatcgt 240
gtctatatat atattgaaaa aaagtaaata aaatgaaatg agataaatatt tattttgtta 300
tttgattatt ttaaaaaata atagaaaatg ttgttttatt taaatttaaa aatatgagat 360
aaaatagga taattaaata atatcattta ctagttatgt gtgttatgcc tttttccaaa 420
taataaattc aaaaatttat tctatcttaa tantaaaatt aaaaccaata tgataattnt 480
attaattatc cctttatttt ttgtttcgt tcattattaa atattccaaa tattaaatat 540
aaaaacttaa agaagataat taaccacaaa aatgacattt gtataaatac atgggacgcc 600
aaaaaaataa taatacatga ttgtctctaa aaagaaaaaa taaatacatt aatatcaact 660
ctaattacta aatctgaata tattattgta ttagtaatt 699

<210> 12773

<211> 554

<212> DNA

<213> Glycine max

<400> 12773

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cataaactca atgtcacaaat cacctttgtg aatatgatcc ctaatgaaat gatgcttaat 120
atttatacgc tctgtcctag aatgcatgat aggattctta gtgatactaa tgacactagt 180
gttattacat cttaaaagaa tatgttctaa atgcaattat aaagtcagat agttatttgt 240
taatacacia gatttgtgca caacaacttc acacaacaat gtactcatcc ttatctgtaa 300
acaaggcaac acatgcttga ttcttactat tccatgaaac caggccatta cctatcaagt 360
ggcaaatact actagtgggt ttcttatcta gtgtaaatct ggaaaagggt gaatctgagt 420
attcaagtag aaagatctca gcacctttta tggtaaccat taccaacatc tacattgcct 480
tttaggattt tattatcctt ctttatataa agaagtaaga ctctctacga ctggattgtt 540
agtgtgcaca catg 554

<210> 12774
 <211> 499
 <212> DNA
 <213> Glycine max

<400> 12774

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gttctctagca aggtagtcc aaagagacct tttgaactgt ggacaaatag gatacctagt 240
ataaggcacc tgcattgtta ggggtgccag gcagaaataa tgatttataa tccgcacgaa 300
agaaaattgg atgcaagaac aatcagtga tatttcattg gttatccaga aaagttaaaa 360
gggtatatgt tttattgttc taatcatagt atgagaattg tcacaactgg aaatgcaagg 420
ttcattagaa atgatgaaat cagtgggagt acagttccac gagaaatgga attaaagaag 480
ttagagtgtg agtcctttt 499

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<210> 12775
 <211> 658
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12775

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tgttcttcac tcattctctc cttgaagtgg catctccaat cacttttctt ccttctctat 60
tctactatca ttgatcttca agaagaaaag gactccattg atgaagaagt ttcaaggcgt 120
acaagctcca catggggcta catcagacag cgtcgactgc gtcacgtcac cagaaaccac 180
caagtcctcg gcagcatcca ggtggaacct cccattcgtc ggcgagaacg agtgtgctag 240
catecccaag ctcccgctga acggctcccc ctggctgtgg tcaccactga agaaccgat 300
cctaagtctg gtgcttgttt ataaataagt gcaacaagat tttctttcat tgtgtctctc 360
ttgtgtgcct tttccatctg caacaaagct tgttctatat ccatttggtt tgattaggtt 420
ttctcttttt ctgaaacttg gttttcttct tcattgggtt attcttttct attttcgcat 480
atggatcatg tgatgagaaa aaatttgcaa caatatgatt ggattcggtc catgattcat 540
agtatttaag tctctgatga ttaactctcc tttntagaa ttaattttga gtccttttgg 600

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gtttctaaat atcatttttt tcttagtggt gatagagtga caaccagaga gacatgat 658

<210> 12776
<211> 477
<212> DNA
<213> Glycine max

<400> 12776

tggacttggt attacctctg tagccatttg gagccacagc ctccatgtct ttttaactaaa 60
gccaatgagt gtttgtgaac tctcagcaaa atcttggcca agtttattga cagcaattca 120
gcactgcaac ccattccact cagggttgaca ctctttacgt tgctccggaa tccgaacttg 180
ttaatgatca ttgatgtaat ggatggtgta ggacaaaata ggctacagtt tgacacaagg 240
atatcaatgc ttttaggatg cactttgtgt ttgaaagga ggtctttgac aattctgaat 300
agaaccgatt caacttctgc ctgtgcacgc ttcattggaat catccggagg gagctcatga 360
actgattctg gcacacaagc ctccacgcca ataccggatc tttccaatac tttcaattca 420
aagcctatga gttcatgggc aaaattgcac aattcaaagt gttctacaat atgagag 477

<210> 12777
<211> 618
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12777

ttttccaan agcttgatgt aaaaatgtac ttattgagtt cttatttate aaacttacgg 60
tagggtaagg ccacttgga tgtgattgcc accaagcttt atgaacagaa gttgtgtcac 120
caggaagttt ccagctctt ctcttgcgca agatttcctc tcttatatct acaattttct 180
ccttataacc ctgtatgata aaaattaaaa aagtaaaaag aggtcaatca tatgggaaaa 240
gatttgagaa ggggaaatga acaaccatca acaattcaac atcccttacc tgtttcagtt 300
catgctttaa ttcttgtctt actcgctcca tgaggacct ctgctctct gttaggaaca 360
gagggccaaa ccccatgcca tctgccccat cgaaactact atcaaagaga ttggcgtcac 420
tatctacttg gtcattctca tcatcagaca ttgttgcccc tgtaccttct ccagggtgaa 480
ctcctgtnta tcatgctgca tgtgagaaca tttatatggt tacttgctgt ggctaattga 540

accaagagtt tgaagatttt cttcaacact agaactatca tcatttatct gttgcanagt 600
gcaatcttgt gggttagt 618

<210> 12778
<211> 728
<212> DNA
<213> Glycine max

<400> 12778

tcagaagcaa gcttccatca taatatgcc ccttgtgctg tgaagacaca caaccaaatc 60
attgttgctt gcatggcaat acataacttc cttcaaagaa atgacgagag tgacagagaa 120
tttgattcac ttgatgaaga taacgaatat atagatactg atgaggatga aaataaagtt 180
gggcctagta ctacaacatg aaagaaccgg atgctcaaag tactctacaa ttggaacgct 240
ttagagaatc tctaaagaat atgtttccaa cacgtattta atttctatat ttgttaataa 300
tacaagtttg catgtttatg gtatggatac atttgaataa ttttatattg gaagacatta 360
ttgatcatat tattactagg ttaatgatat tttatattat gctataaatt ataattacat 420
agacaataat taaattataa actaaaatgt atgtgataac attactaaaa caataggata 480
attacatgtt taatatgaaa atttattatg tagaaagaca tataattata ttgttatgag 540
atacatttat tttatttttg tagcagaatt aattcttaat caaaatttct taaaatatat 600
acaatatttt aacttaatga tgaagtacat attttataat gaaatagaag agaaagacat 660
tttattattt taataatatg tattattaac gaacttataa tattttaaatt ggtgaggatt 720
agtataat 728

<210> 12779
<211> 502
<212> DNA
<213> Glycine max

<400> 12779

tgaaattgaa caacggaagc tctccagaaa ctcaaattgt gataacttat cacacggagg 60
tccgattgag gcacataata catcgagacg ctcgaaattg aacaacgaat gctctcgga 120
aattcaaattg gtcataactt ttcaaacgga agtccgactt aggcgcataa tatatcgaga 180
aggttggatt tgaaccacga atgctctcga gaaattcaaa tggtcataac atttcacaca 240

gaagtccgat ttaggcgcac aatatatcga gaaggttgaa attgaaccac gaatgctctc 300
gagaaattca aattgtcata acttgtcaca cggaagtcgc attcaggcgc atactatata 360
tagacgatcg aaattgaaca gcgaatgctc tcgagaaatt catatgggtca taacttgtca 420
cacgaaagtc tgatttaggc gcataatata tcgagacgct cgaaattgaa caacgagtgc 480
tctcgagaaa ttcaaattgg ca 502

<210> 12780
<211> 582
<212> DNA
<213> Glycine max

<400> 12780

tgcacacaat ttcttgaatc tttcccaata ctcatacaat ctctcttctc tcagttgect 60
gatgcctaaa atgtcttttc tgatggtagt ggtcctagat gcagggaata atttctccaa 120
gaacaccctc ctaaggatcat cccagctgaa aatggacttg ggagcaaggc agtagagtca 180
atattttgcc actccctcca gataatgagg aaaagccttt agaaagatat gatcttcttg 240
gacatcaggg ggcttcatgg tggaacaaaa aatatggaac tccttaagat gcttatgagg 300
atcttcacct gcaagaccat gaaacttggg cagcaaatgt attagtccag tcttgagaac 360
atatgaaaca cctcatcag gatatttaat gcacaagctt tcataagtga aattaggtgc 420
agccatctcc ctaaaagtcc tctcatgacg aggaggttga gccatgttct cggatatgaat 480
attagtattg gaatgctcaa aattagaata ttcacaatca ctctcaacag aatgcttata 540
tgcacagaat gaccaggatg catattatgc tctacttata ta 582

<210> 12781
<211> 652
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12781

taaaattcat tatggatgca tatgctaaga gcattctaata ggcttctaata atatcaactg 60
gagcatatgt ttctcataa tctatacctt cttcttgatt atatcctttt gcaactaatc 120
tatccttatt tctaattgatt attccatggt catctaactt atttctaaat acccattttg 180
ttcctatgat gggataattt ttaggtttct ctacaagttc ccacacattg tttctttcaa 240

attgattcag ttcttcttgc atggcaataa tccagttatc atctactatg gcttctttta 300
tatttttagg tgcaatcata gatacaaaag ccatattatt gcataaatct ttaagagaat 360
gtctagttgt taccctcttt gagatatcac caataatgtt gtcaagggga tgatctttng 420
aagctttcca ttcttatgga agttcatcat tggatttgac ttcttctgga ggatcttcat 480
tgcttctctt accttttctt ttagaatctt gaccatgaat atacaatctg ttctaaagat 540
tctgcaatat catctatcat attctttctt tgaaaagata gcattaaatt catcaaactg 600
tacatgaatg gattcttaca tattcataga tcttttatta tatatctat at 652

<210> 12782
<211> 573
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12782

ctaagcttca taaatcacta gtaaaattta aagatgatat gaagttcaac ttattttctc 60
aatccccacc ttcccccttt ttgttttgc tcatgttctt atttacgttt aatgtttttg 120
tagactgtgt gatgcaatcc tccctaggaa gggaccagtc actagaacca tgagcaagag 180
gctccaagaa gattgggcta gagctgctaa agaaggccct agggttctca tgaaccttat 240
ggtagatttc agaggccatg ggccaagggt gggccaatt atctttgtac atattagatt 300
aggatgtcat tatatttggg ccttgtattt anggtccat attgtaggta gggtagccta 360
taaatatagg atttttcagc ccttgtattt tatggcacct agactagttt ttgtattagt 420
ggtagttttg taatttcaca tgcactaagt gaatatttga tgtgtgtggg tggataaat 480
ttaattgaat tgcagaagcc caactcatta aatttagagg tgaggggtgag catgtgctta 540
ctacacccca ttgtctcatc atatagtcac act 573

<210> 12783
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12783

ntgaaggcat ctacctcttg aagaggcaga ggtaagggca tatggattat tggtagagg 60

agaggacggg gagatcaaac actattagaa aatacacttt caacatcggg tatttggggc 120
 cttctacatc gggtgtaaaa ccgatgttga aagcatcgat gttgaatgta ttgttggtta 180
 catcggtttt aaaaactgat gttaacataa aaatattaac atcagtttta taaataaccg 240
 atgttataaa gaaagaagta caacaaaata agtgtatgcg tgagggacgt tggcatcagt 300
 tttctgtaaa aaccgatgtg aatatgttat attaacatca gtttttagag gaaaccgatg 360
 tgaacgttca tcattcatgc acctatnntt gctatagtaa ttatgtataa cattgggttat 420
 ttataaataa ccgatgttat tgcatacagt ttaacaatcg gtattttata aatattcgat 480
 gttaacctat gtacattaac a 501

<210> 12784
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12784

agtttccaag tgccaattcg ncttcttctt tatttcagtc tttttctggc ttcaatncat 60
 cagagggcctt tccttctgtg tccagcatct tgggatgttc ccagcctttg atgacagcct 120
 tccaggttct gctatccagt gatttgagga aggccaccat ccttgctttc cagtattcat 180
 agttgggttc atccagaata ggtggtatgt tcaactggtc tccttctttc tccatgttca 240
 tcagaattta tctccctaga tctcaactcag tgatttcgag tgcccgcctc gataccaatt 300
 gaaattctga tactggggac agatgtcgta caggatgtca cgacatcacg cttcagaaca 360
 tgcagattgt atttgacagt gtgcacagtt taagcgagta aataacacaa gagaa 415

<210> 12785
 <211> 456
 <212> DNA
 <213> Glycine max

 <400> 12785

aactcaagct tgtagacctt ctcttcttca ccttttcgaa catatttcgg tgggtgttcc 60
 acatacacgt cctctgtcaa ttctccgtga agaaatgcgc ttttgacatc tagttgatac 120
 acattccatc ccttttgtgc tgcttgagct aaaaccatcc ggattgtgtc ccaccttgct 180

accggggcaa acacttcggt gtagtcaatc ccttggtgct gagcatagcc tttagetaact 240
 agtcggggcct tgagcttata aacttcacca ttctcattta acttggttct aaaaaccatt 300
 tcaatccaat cttcttagca cctttgggca aagttgtaag ctgccaggtt tcattctttt 360
 tgattgcttc aatctccaaa tccattgect ttctccattt ctcatctctt tcagcttctt 420
 caaatgagct tggatcttca tgagaggtaa acattg 456

<210> 12786
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 12786
 agcttcatat ttattaagag gccattaac attctcttta actctgaaaa ctcaacttga 60
 cccaattggt ttctatttg atggaagagg atccagatcc caggtctagt tttagaggtaa 120
 tgctaaatat tcttggtgca tggcttctt ctacttagga taagctaaag cctattttac 180
 accttttggc tcacaatgag taagtataga aggatgaagt ctaggttgat agttaccaga 240
 ctttgacctt gtctgcatag gatgagcatt cactattcta ggtggtgaag tagtttcaaa 300
 attttgagga ctggtttttg cagtaggtgc agagtgaaca atggtttgaa catggctaga 360
 agaagaaggt ggtcaatag aaacataact ggacaagggt agtgaggaac aat 413

<210> 12787
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 12787
 acacaccccc tataatagct aagctcacc catgacaaac aacatgaaaa tacaacaaaa 60
 aaaagtcctt actacaaaa ctactcaata gaatggccaa aatacaatgc ctaaacgaag 120
 gataaaccta ttctaattt tacaagata atcgggctca tacttagccc atgggctcga 180
 aatctacctt aaggctcatg agaaccctcg ggcctttctt tggatctcta gccaatcta 240
 cttggagtct tctacccaat gctcttgagg ggtatgattg gcatcagtc gtttctaaaa 300
 acgctattat atcaaaaatc gtctt 325

<210> 12788

<211> 435
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12788

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ntggagtttc caagtgccaa ttcgttttct ttttttttcc agtctttcttc tggcttcaat   60
tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca  120
gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat  180
tcatagttgc ttccatcgag aattggtggt ctgttcactg gtccgccttc tttctccatg  240
ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc  300
aattgaaatt ctgataccag gggacagatg tcgtacagga tgtcacgaca tcacgcttca  360
gaacatgcag atttatatgtg tccgtatgaa cagattaaac aagtaaataa cacaagagaa  420
ttgttacca gttcg                                         435
  
```

<210> 12789
 <211> 430
 <212> DNA
 <213> Glycine max

 <400> 12789

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actcagcttg agcaattcaa cgacatactt tttactcgta gtctgatttt tcatgtaata   60
tatcgagatg ctagaaattg aatggtgaag ctccgagcaa attcaaacga caataacttt  120
tcactcgggt gtttgactga gtcccgtaat atatcgagac gctccaaatg gaataaccgaa  180
gctctgagca aattcaaacg acaataactt tttacttgga tgtctgattg agtcccgtaa  240
tatatcgaga gggtcggact tgaatgccga agctctgagc aaattcaaac gacaacaact  300
ttttactagg atgtccgatt gagtatcgta atatatctaa acgctcaaaa ttgaatgttg  360
aagctatgag caaattcaaa cgacaatcac ttttttactc ggatgtctga ttgagttctg  420
taatatgtgg                                         430
  
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<210> 12790
 <211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 12790

tyccgccacg gaattntccg actctgctct agngatgtgg aacaagctac aaaaggagag 60

agcaaganat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120

gcggtatgtg ccggttagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180

aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgattttct aatggtttga ctaatgatat 300

ccgtgatatt gttgagctgc angagtttgt tgaaatggat gatttgcctc acaaagcaat 360

ccaagtggag caacaattaa aa 382

<210> 12791

<211> 384

<212> DNA

<213> Glycine max

<400> 12791

aaaaccctt gaactacttc aaaaccctt gaactacttc acatagactt atttggctcc 60

tctagaacta tgagtttggg tggtaattac tatgacttag ttatagtaga tgattactca 120

aagttcacat ggactttggt gttgaaaacc aaaaatgaag cttttgatgc ttttcgcaca 180

cttgccaata ttattgaaaa tgaaaatggc ctcaacattg tttcacttgg aagtgatcat 240

ggaggtgaat ttcaaaataa gtcttttgaa tagtggtgtg aagaacatgg aattcaccac 300

aattgttttt gcccgaagaa cacctcatca gaatggtgtt gtggagagga aaaatagatc 360

cctctgagaa agaacaataa ctct 384

<210> 12792

<211> 410

<212> DNA

<213> Glycine max

<400> 12792

agctcacgat tatttattgt ataattttct tacactctca atttattaaa gatgatcata 60

tataataaat ttagtaaatt ttataataat tattttaaaa atcattcatg attatgagtt 120

atcaaccatc acataaagga acttgacacc acactttaac tcaaagtctt aagattcatg 180

tttatgaatc ttctcctcgt gctcaactct ttttacttcc tacgactcca cctcacactt 240

gtactagatt tggatctttt aattaagatt tcagttttaa tttgtgttga taaaaaata 300
 taattaagag aaaagattct attaaagctc accaactaga ttttctaata aattagttat 360
 caataaagtt ggtgattata tacttcctat taatgttata gtgacaaaaa 410

<210> 12793
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 12793

agcttcatat ggacatcgct tcattttggt cgccattggt tacttcacca aatgggttga 60
 agcgggttca tacgccagtg tgactaggag tgtggtggtt aggttcatca agaaaaagat 120
 aatttgctgg tatggtttgc ctaggaagat tatcactgat aatgccacca atctgaacaa 180
 taaaatgatg aaggaaatgt gtgaggattt caagatccaa caccataatt ctatgccttg 240
 caggcccaag atgaatgggg cagttgaggc tgctaataag aacatcaaga aaatagttca 300
 gaagatgatc gtgtcataca aggattggca caagatgctc ccttttgcac tacatggtta 360
 ttgaacctcg atacgcacat caactggggc aaccccgctc tctttggtgt atggaataga 420
 ggttgtgct 429

<210> 12794
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12794

agctngccaa cctatgtaag ctctttatat ctcccacact gtttgttgtg ggccattctt 60
 ggatggcctt gattttctca ggggtccactt ggaccccatc tctaccaact acaaacccta 120
 agaaaactat attatctaca caaaaaagta cacttctcta tatttgcata gaggggtgtt 180
 ttcttaaaga ctgaaagaac ttgcctaaga tgcctaagt gatcatctag gctcctactg 240
 tacactaaaa tatcatcaaa ataaacaact acaaactctac ctatgaaatc ccttaagaca 300
 tgatgcataa gcttcataaa ggtgcttggt gcattagtga gcccgaaagg catcactagc 360
 cattcataca aaccaaactt ggtcttgaaa gcgggtttnc actcatcac 409

<210> 12795
 <211> 257
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12795

acactttngt gcgagaaacc gagacgctcg aaattgaaca acggaagctc tcgagacata 60
 aaatgggtcat aactgttaaa acggaactcc gattcacggg cataatatat cgagacgctc 120
 gaaaccgaac aacagaagct ctcaagaaat gccaatggac ataacatgtc acacggaggt 180
 ccgataaccag tggatagtat atcgagaagg tcgaaattga acaacggaag ctctcgagaa 240
 attcaaatgg gaataac 257

<210> 12796
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 12796

ctattagtaa gacttcattc ttgaattcat ttgttccttg cttataactt cttgaaagtc 60
 tctttactgc tatttggtgc coacaggta atatccctg aaattaaacc attattcatg 120
 tgaaaaacaa aaatatgaaa ataacttttc tcacatttac tcaccttgta aacttctcca 180
 aatccacctt tgccaatata gttctcattg gagaagttgt tagtcgccgc ttcaattaca 240
 gccaaatcaa attgcaatgg ctctaaaatg gcgctttcat gaccaactag aacaaatatg 300
 gttagtttgt taaaccaagt ttctaaagt ttgaggataa caaatacgag tttaaagtac 360
 atatttttta catacaattt tctttgagaa tggctctaaa actctctctt gcttgtctcc 420
 ttattaaat 429

<210> 12797
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 12797

gtgcagttca ctaaaggaga ctgggtcttc gttaagcttc gtccatgtcg ccagtcaacg 60
 gcttcagggtg gtcaatactc caagttagca aaaaggttct acgacccatt tcaaattggt 120

caaaggatcg gacctgtagc atataaactt gacttacctt caacctcaag aatccaccct 180
gtcttccatt ggtccttact caggccttat cactcttcac tgaccacaac agaaacaccc 240
attccttgc ccaatgcgga tgaagataac caacctctcc tcacctctct cactgatattg 300
gataaaagtg gcacagttca agggatgaca agcagttacc tcgtttggcc aatgggatgt 360
tctc 364

<210> 12798
<211> 424
<212> DNA
<213> Glycine max

<400> 12798
agcttatagt tattggaggg agaattttca atccaaaatc aattgtacct ttttgtaacg 60
aagaattctt ttgcagctt ttagatgagg agaggtagga gcctccgtaa agcgacacac 120
aactcccacc gcatatagaa tatcgggctt tgtattggtt agatacctta aactccccac 180
aagactcttg aagatcgtgg agtctacctt ctctccttca tcaaaatttg ataacttcaa 240
gccaccttcc ataggtgtgt tcacgggatt gcaatcaagc atattaaatt tcttcaacac 300
ttcttttgtg tagctttctt gtgagacaaa gataccattc ttcgttttct tcaacttccat 360
tcccaagtaa tatgacatga gtctcgtatc tgtcatatca aattcacgag acatggactc 420
cttg 424

<210> 12799
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12799

agcttccaca tacttggttac ccattttact attntcagct aacagatcat aactacctcc 60
aaggccaaga tagaccaaat tggagagatt cccaatctga gatggaatct tccccatgaa 120
tccagaagag aggtcgaggt gagtcaagga ggctattgca caaagaaaag aaggaattgc 180
cataccttca aaataattgt cgctcaagtc aagatatcga agcttagaga gattcccgat 240
ctgagagggg actgttccgt cgctcaacaac agaactcagg tcaagataca ccaaatttga 300
gagatttcca atctgaggag gaattctccc atggaatcca ctatcagaga gggtgaggtg 360

agtcaaggaa gtcattgtcc caaggaaaga aggaattgac atac

404

<210> 12800
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12800

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aycaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
ggggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180
aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
ccaagtggag caacaattaa aaaggaaggg agtggc 396

<210> 12801
<211> 401
<212> DNA
<213> Glycine max

<400> 12801

agctcttgag aatatcctta ataattgtga cattatccat ttatgggttc ccaaagaaga 60
tagtatcatc agcaaattgt agtatgttga ctgggatctt tttctttccc accataaaat 120
tgtggtagta gtttttggaa aatactgcc tcatcatgcc tgtcaagcct tcagcaacta 180
ggtcaaacia aaaggagagcc aatggatccc cttgtctcaa gcctatttga ggtttaaatt 240
cagaagtagg acttccattc actagtatag atattgatgc taatgaaaga cacccttaa 300
tccagccaat ccacttttca ttaaaaccca ttcttctcat catgtaaaag aggaaatgcc 360
aagacacaga gtcatgcttt ttcaaatca actttgaaca c 401

<210> 12802
<211> 341
<212> DNA
<213> Glycine max

<400> 12802

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aacgagacgc tcgaaattga atgttgaagc tccgagccaa ttcaaacgac aataactttt 120
tactcggatg tctgattgag tcccgtgata tatcgagacg ctcgacattg aatgtgtgaa 180
tctctgagca aatgcaaacg acaataactt tttactggga tgtctgattg agtcccataa 240
catatcgaga cyctcgaaat tgaatgttga acctctgagc cgattcaaac gacaataaat 300
ttttactcgg atgtctgatt gagtcccgta atatatcgag a 341

<210> 12803

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12803

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tctgagtttt ctgtagaaag ctttctttgc aagctaaggt tgatatatat aagagaagct 180
cattgtccag aaaacactaa agcatttcat ccaaaaatat atctcattat tttctactaa 240
aatcattatc ataatttaga tttattaaat ttataatagc attcacatat atcatgtaaa 300
aagatttata gttaaaggta gttttttatg atgaatagct attgtaatac tatccttcaa 360
aaaagctatt ataaatctat aatactatat ctattattgg ggggaaacag ctntcgggtga 420
ttgtattaca atatgtcaat attc 444

<210> 12804

<211> 430

<212> DNA

<213> Glycine max

<400> 12804

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aactataagg cggagaaaaat ctctgtttcg atgggcatgg atcattcgaa gactcctgct 120
agctcgagtg accggatact gcacacacat aaactggaag aactgccctc atgccctagg 180
tgtggggtat cacggtacat acacaaggat gatgatgagt gctgaagaga agaagactca 240

tagaagggcc ccctacctac ggtgatgcgg actcattcac ttgtgccaat gtttatacgt 300
ctctatgctt atggatacga tgctatagac atcttacatg gcatgcacat gagagcaact 360
gcatggaat ggtcctgcat ccggatgac gctcctagag gacaaggata tatcatttgt 420
attcgaattt 430

<210> 12805
<211> 397
<212> DNA
<213> Glycine max

<400> 12805
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ttgtgcaatt tcgagcttct cgatatgtga tatgcctgaa tcggacatcc gtgtgaaaag 120
atataccagt tgaatttctc aagagcttcc gttgttcaat tttgagcgcc ttaatatgtg 180
attggcctga atcggacatc cgtgtgaaaa gttatgacca tttgatattt tcaagacctt 240
ccgttggtca atttcgagcc tctcgacttt ttatgcgacc gaatccgaca ttcgtgtgaa 300
aagttatggc catttgaatt tctcgagaga ttccgatgtt aaatttctag cgtgtcgata 360
tattataagc acgaatcgga cattcgtgtg aaaagtt 397

<210> 12806
<211> 385
<212> DNA
<213> Glycine max

<400> 12806
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agaaaagtca acggatcgta actatgtcac acaggaagtc ctattcttgg acataactca 120
tcgaggacgc tcgataattg cacaacacgg gcctcatcat gcatgcgaat gctcctaaca 180
ttacgctaag attagcgagg gcgggacgta acatatcgag acgctctata ttgagcaacg 240
aaagctatcg acgactttga atggccataa cttatcacac ggatgttggg agacgggaca 300
taactcatcc agacgctcta taatgaacaa ccgaaactct ctagaagttc gagatgacat 360
gacaatacac acagatgtgc tattt 385

<210> 12807
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12807

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agcttcaaca tctttatccc ttcagtttg ctggaactac ttttcatgga cttgatgggg 60
cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttgttgt ggatgatttc 120
tecagattta cctgtgtcaa ctttatcaga gagaaatcag acacctttga agtattcaaa 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaatagaat taggagtgac 240
catggcagag agtttgaaaa cagcaagttt actgaattct gcacatctga aggcacact 300
catgagttct ctgcagccat cacaccacaa caaatggca tagttgaaag gaanaacatg 360
actttgcaag aagctgctag ggtcatgctt catgccaaag aacttcctta taatatct 418
  
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<210> 12808
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12808

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aagagaaaaga gaaaaagtaa tttttttaat tatctagatc ccactcttca tttaatgaat 120
cttaagatta aattgataaa attttcaaga atgtatgtat agtgttgtag gtaggcgggt 180
accatagttg gagactctcc ccgcatgcc aagttgacaa aagaaaatac ccccttttc 240
atgaacagcg ctcaaatag gtttccaagc ttcagctgt tctcttgctc agatgccagg 300
tgtattaggg tatctttggc caacgtacaa aacggccaca cgtataatga aacaaaatac 360
taaagcatta gtacaagata atctttgtgt ggacaaaatc agatccaatt tctagacgtg 420
ttcagattaa ttacccc 437
  
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<210> 12809
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 12809

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 ttggaccttc cagaagagta tggagtcaac accactttta acatttctga ttttaactcct 120
 tttgcagggtg gagctgatat tgaggaggag gaactaatag atttgaggtc aaatcctctt 180
 caaagggaag gggatgatgc aatcctccct atgaaggac caatcactag aacctagagc 240
 cttacggtag atttctgagc ccatgggcca aggttgggtc caattatctt tgtacatatt 300
 agactaggat gtcattatat ttggtccttg tatttagggc tccatattgt aagtagggta 360
 ccctagaaat ataggatttt tcagcccttg tatt 394

<210> 12810
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12810

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 ttctgtttat cttggtgata ctctgtctc atggcgttct aagaaataac ccattgtttc 120
 tcgtagttca tctgaagctg aatatcgtgc tctcgccacc acaacttggtg agcttcaatg 180
 gctcacttat ctctcaatg atctgcatgt ttctgctaaa caaccagctc tcctctattg 240
 agataatcag tccgctttgc aaatcgcagc caatcaagta ttccatgaac gtacatagca 300
 catagatatt gattgccatc tagttagaga gaaagttcaa tctggtctga ttaattactt 360
 cctgttgctg ctccacaata gcttgcccac atctttacga ag 402

<210> 12811
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12811

ctcagcttag gaggaacctg acagggatgc tagcctacca ttgtagcttc atgacttctt 60
 gaatgggagg aggggtgcgt atctccagta tgatagtga tttttcgga ttggctccaa 120
 tccccgacg tgtgatcatt aagctgagga acttgctgcc acctaccaca aaagtacatt 180
 tttcagggtt gaggcccatg ttgtatttgc atagttccct gaatacttcc tctaggtcca 240

ccacatgttg gggatatgctt tgagacttga caactatgtc gtccacacat actttgacgt 300
 ttcatttgat ctgttggtta aagactcggg ccattagtcg ttggtatgtc ggcctgcgcat 360
 ttttgaggtc gaatggcatg acottgtagc aaaagttagc atcttcagtg atgaatgtcn 420
 gtttctcctg gtctggagaa tgcattctga tctg 454

<210> 12812
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 12812

agcttgtaat cgattacaca agtattttta tcgattacta tatgagattt tcaaataata 60
 atttccaaga gtcacatctg ttcaaattgt tttttgaatg accatcaaag gtctatttat 120
 atatgacttg gaacacgaat ttgcttagag tttttctgaa caaaaagtct tatcttctca 180
 aaaacaaaat tgtcttatcc tctaaaacat tccttgcca aaacacttgc aattcaataa 240
 ggaattattt gagtgttca ttgtacaatc tatctcttcc aagagagatt tcttcttctc 300
 ttcttcatac ttctgaaaag ggattaagag accgaagatc tcttggtgta aagaaatctg 360
 aacacaaagg aaggggtgtc cttgtgtgtt tcagaagttg taaaggattt gcaagatagt 420
 ggtactc 427

<210> 12813
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12813

actctataat actcacagct tgtttaccce atgttngaatt tgcttacaat agagcttggt 60
 atagcactca ctaattgttc tccttttgaa gttggttatg gttttaaccce actaactcct 120
 cttgatcttt tgcttatgcc taatgtttct gtttttaagc ataaagaagg tcaagcaaag 180
 gcagactatg tgaagaagct tcatgagaga gtcaaagatc aaattgagag gaaaaataaa 240
 agctatgcta aacaagccaa caaagggaga aagaagggtg tcttcgaacc cggagattgg 300
 gtttgggtgc acatgagaaa agaaagggtt ccggaacaaa ggaaatcaaa gtttcaacca 360

aggggagatg gaccatttca agtgcttgaa agaatcaatg acaatgctta caaagttgag 420
 ctgcccgggtg agtataatgt tagttccacc ttcaatgtct c 461

<210> 12814
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12814

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 tgctcgactt acataaaaagt ctgacttacg agcctattta aaagcttgct taaagacgct 120
 ttttattaat taattatttt aaaacctagt gaaatactaa ctaaaaaaag aaacttataa 180
 aatttcgtat aaataatgta caaatctaaa aataattgat aaacaaaatt atattgaatt 240
 caagtcgtta aagcacaaag tatataaaaa aaataaaaat agcataatat taaaaaatgt 300
 atggattaga gatgatttac actaatatag ccaaacaaaa attattatta gttaaattaa 360
 caatttttaa tccaattttt ttaatatata attatattat atattnttaa aaaaaatata 420
 tccacaataa tttcatctta gtctactcaa g 451

<210> 12815
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12815

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 aaacgggtcca ggatacatag gcacctcagt gttgcaaact tctctccatg attttattga 120
 ggttattttc cagaacaacg aaaacaccat gcaatcttgg catcttgatg gttatgattt 180
 ttgggtcatt gggtatgcca gcttccttta tttataaaact tttgtttcta ttatcaatat 240
 ttttattagt agaagcaatt tagaattagc ttaagaaagt tctaaagatg ttcattgacc 300
 cttgcagtca tggtttcggc cagtggacag atgctagcag aaaaacatat aatctagtgg 360
 atgccctgac tagacacact gcacaggtaa cttacatga aagttcccta 410

<210> 12816

<211> 403
<212> DNA
<213> Glycine max

<400> 12816

gaccccttaag cacctgcagc atgcaagctt taaatttaaa cgacatactt tttactcgga 60
tttctgattg agtcccgtaa tatatcgaca agctcgaaat agaattctga tgctctgagc 120
aaattcaaac gacaataact ttttactcgg atgtctgatt gagtctgta atatatcgag 180
acgctcgaaa ttgaatacgg aagctctgag caaattcaaa cgacaataac tttttactcg 240
gatgtctgat tgagtcccggt aatatatcga cagctcgaa atagaattctt gatgctctga 300
gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcttg taatatatcg 360
aqacgtcaa aattgaatac cgaagctctg agcagattca aac 403

<210> 12817
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12817

agcttcgata aataatttcg agcgtttcta tatattacgg gactcagtca gacaaccaag 60
tgaaaagnta ttgtcgcttg aatatgctca gagcttcgat attccatttc gagcgtctcg 120
atatattacg agactcactc agaccaccga gtgaaaagtt attgtcgttt gaatttgctc 180
agagcttccg cattcgagtg caagcgtctc gatatattac gggactaaat cagacatctg 240
agtaaaaagt tattgacgct tgaatttgct caaagcatcg gtattccatt ttgagcgtct 300
cgatatatta cgggactcga tcagacgtct cgagaaaaa 339

<210> 12818
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12818

ntagttcact gcttcaagta gtgtacgata tgttttttat gaaatttcatt tgccctaagag 60
ttactatcag gcgaagaaga tattgtgttc aatgggtatg gagtatcaga agattcatgc 120

ttgctcgaat gattgcatac tgtacagaca taaatttgaa gaaatgtcca aatgccctat 180
 gtgtggggta tcacgggtaca tagtcaagga tgatgatgag tgtagtagtg atgaaaactc 240
 aaagaagggc cccttagcga aggtgttgtg gtatctttca attgttccaa ggtttaagcg 300
 tctttttgct aatggaaaacg atgctaaaga catcttacat ggcattgcaa tgagagcaac 360
 tgcgatggaa tgggccgtca tccggatgat tgctcctagt ggaaaaggat agatcatctg 420
 ttttcgaatt tc 432

<210> 12819
 <211> 284
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12819

agcttcaact acgacctcat tagctatcat tacaccatgg aggatatgtc tgcctttgag 60
 aaaagtagtt tgcctttcat caattaagtg aggagcaca agagccagcc tattagccag 120
 gactttggac attattttgt agacacacc tatgagagag atgggtctat agtcattaag 180
 agattggggg ctattggttt tggggatgag ggctatgaag gatgcattac ttcctttggg 240
 gaatctgcca ttaatgaaga attcatcana gaatctgata aaat 284

<210> 12820
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12820

cctatgttgg tgatatgcta agatggacgt gtggacttga ctaccactct aataaagagt 60
 acaacagatg ttgtgtttga tgatttacgt tttctctctt tcttttatgt tcatatgcaa 120
 tgttcatttt tttctcttat ttcgctatat tctatctcct atttctatat atttgggatg 180
 ggtgtatttg actatctcaa gttcaaattg agatgagaga taacaattta tctaatatct 240
 gtgtcttttt tatacctgta tataataatc acattnttat actataatta aataataaga 300
 taaatcgtat aaactctagc acaatagata tgcagacgag ataactatta ctaaaaatac 360
 atatagaatt tattaatctt gggtaatagt taaaaaacat caaaagagtg tagtgggatg 420

ggtgaacttt taanaagtta atagcaaaag agctgtgagt tgaaatttaa aattaataaa 480
 taaccatttt aaata 495

<210> 12821
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12821

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 ttgattaaac attgtaatct ttatttttat gtgtttacaa cgtacattac attttcatga 120
 tagtattttt atgttacaac ctctactagt tagctaacaa gtgtaataata ttataatatt 180
 gttgaattca ttgttttggt gggtccattg gtatttattc taaataccta ttcttattct 240
 ataacatata tggtagtagc tgtaacataa aaattagtta gaataattat tatagctttt 300
 ctctttaatt catattataa ttgtgcgggg gacttacttt cntttaatac atattatact 360
 atgttatatt atcatagtgt gataaattat gttaatacaa ctgggttacgt atcttttgta 420
 atggataagt catgga 436

<210> 12822
 <211> 177
 <212> DNA
 <213> Glycine max

<400> 12822

gagttatatt tgattgtgta atagaacttg catgctacga ttaaacaacc agttgtcaag 60
 aacatgatga aagccttgta ctttcagttt accgctggag atctaccatt gtaccttggt 120
 gcctttacag gatactgggc ttatgggtct tccacagaag tgtatttgct gaatagt 177

<210> 12823
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12823

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ttactagact cagtcagaca tccgagtaaa atgttattgt cngtttgaat tgctaagagc 120
 ttcgataatc aatttcgacc gtctccatat attacgggac tcagtcagac aaccgagtga 180
 aaagttattg tcgtttgaat ttgctaagag cttegataat caatttcgac cgtctccata 240
 tattacggga ctcagtcaga caaccgagtg aaaagttatt gtcgtttgaa tttgctaaga 300
 gcttcgataa tcaatttcga ccgtctccat atattacggg actcagtcag acatccgagt 360
 aaaatgttat tgcgtttga atttgctaag agcttctata atcaatttcg agcgtctcca 420
 tatat 425

<210> 12824
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 12824

atcgtctcga tgtattacgt gactcaatca gacatctgag tgagaacggt attgtcggtt 60
 gaatttgctg agagcttcaa cattcaattt ctagcatctc gatataatttc gggactcaat 120
 cagacatccg agtaaaaagt tattgtcggt tgaattttct gagagcttca acattcaatt 180
 tcgagcgtct cgatgtatta tgggactcta tcagacatct gagtaaaaaa gttattgtcg 240
 tttgaaatcg ccaaagcttc aacattcaat ttcgagcgtc ttgat 285

<210> 12825
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 12825

tcacctgccg catgcaagct tctacaaagg tgtgttccta atttctatga gtaaagctag 60
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 aagaatagct caccaaggca cctgttctag ctcttcaga cttttctaaa acttttgagc 180
 ttgaatgtga tgcctctgga gtgggagttg gagctatatt gttacaaggt tggcacccta 240
 ttgcttattt tacttgagga ataaactcaa gcccaagagg tgtggcaatg ctaacaagtg 300
 tctttttaca aaggagaaaa tatggaggtt gtctaagagg ggaaatttct ttaataattg 360
 tctttatttc aaaatgtctt cccttcttag ctaacctctt ggaggagaca cttacctcct 420

<210> 12826
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12826

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 ttgaatgttg aagctctgag ccaattcatg cgacaatatt tttttactcg gatgtctgat 120
 tgaagcccggt aatatatcga gacgctcgaa attgaatgtt gaagctctga gccaatccaa 180
 acgacaataa ctttnttact cgatgtctga ttgaatcctg tcatatatcg agacgctcga 240
 aattgaatgt tgaacctctg agcgaattca aacgacaata actntttact cagatgtctg 300
 atatagtctc gtaatatatt gagacgctcg aaattgatg 339

<210> 12827
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12827

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 gctcaatatt cttagaaaga taatgaagtg taaccatact tacctttgaa gtgagtgaag 120
 ttctaccata tgaaaaataa gattaattat aattaggtat caagacttaa gaacctttat 180
 atttaggaat tttgtacatt tattaaagtt tatcacacta atgattatgt gaaaaatcat 240
 cataaaatca aagaattctg aagatcttga tataataaaa aaagtataat aacttgaaga 300
 acgtatttat tgtattgcac tacacaataa atgttactat actgtagtag tgtatatatt 360
 atagtngtat aagatactga ttttttata 389

<210> 12828
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12828

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 ccgccatctg gcgagattcc tagacatddd caggaaactg gaaataacta tggcctttgg 120
 agaagctttg cagcagatgc cactctactc aatgtttttg aaagatatgt tgacaaggaa 180
 gcacaaatac attcactatg agaatatcat tgtggaaggc aactgcagtg ttgtgatata 240
 gaagatcctt ccacaaaaac acaaggacce tggaagtatg actattcctt gttcaatang 300
 tgaagtcaca gtgggaaagg ctctcattga ctntgtagcc aatatcaact tgatgccact 360
 ctccatgtgt 370

<210> 12829
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12829

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 aaacaaaccc tntgagttga ttcataataa cttcttcttc taagtcacca ttcagaanag 120
 gcggtcttta gatccatttg gtgaagctcc aaatcaaag agccactaaa gccaacacaa 180
 gccacaaaga gtccttctta gaaacagaag agatagtctc tttgtagttg atgcaatcct 240
 atcccgaag ggcattggat agaagaactc cagtagattg ngccagagat gtaagagaag 300
 gccctanggt tctcatgagc cttangatag atttcggacc catgggctaa gtatgtgccc 360
 acttatcttt atacatatnt gattaagatt tcattanttt tgggccttat a 411

<210> 12830
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12830

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 cagtatccag tagaatatgg tatggaaggt tggttgtggc gacaaaatca aattttggca 120
 agattcttga ctgagtgagg gctgtaagca tttcaaaaaa agattcttgg caatatggaa 180
 ggaacgttag tttattaata atattcaaag aaagattctc atagtataac ccgtgcagac 240

caaccctgga tgggattcag ttntcttctc ttggccaagg gcagaacgaa agccttggtg 300
ctagattctc tgaagtggaa attaagtctg cagtttgccg ttgtagtgga gataaaagca 360
ctggccccga tggtttgaac ttcaactttt atcaagtagt ttgggaaatt ctaaaacctg 420
atttcacac gttcttcgat gagttcttca ttaa 454

<210> 12831
<211> 298
<212> DNA
<213> Glycine max

<400> 12831
tcatttatcc tatcttctac agccaatggg tgagttccgt gcaggtagtc ccttaaacia 60
tgggcctcac cgtgatagaa aatgagaatg aggagcttat tctactccg gtgcagaaca 120
gttgagagt ctgcattgac tatacgaagt tgaaccaagt taccaaaaac gaccattctt 180
cactgtcatt cattgaccag atgcttgaac acctgtcagg caaatcttac tattgtatac 240
ttgatgggtt ttctgggtat atgcaaaaca ctattgctct tgacgatcat gaaaagac 298

<210> 12832
<211> 288
<212> DNA
<213> Glycine max

<400> 12832
catgcaagct tgtgttgac aagttggtgg tattcatata aagatgggtt tgagcttata 60
tgtcattact tagtggaatt ctacttttat gatgcttgag agtgcccttg tatatcgatg 120
tgctttttgt agtcttgaat ttgatgatag gagctattca agttgtctta ttaatgatga 180
atggaagaga ggacaaaaaa tgtgtgaatt ttgctgtccc ttttttcaaa tcacagagtt 240
gatatctggt tctcttacc caacgtctaa tttgtaattt atgcaagt 288

<210> 12833
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12833

atgacgaggt tgagtcgccg ctgtggctgc ctactggct tagcttcac ctcataaagt 60
 atcctatgca tgcaggtaga tgggctaata ctaggaatgt ctgctaaagt ccatcctaatg 120
 gctttcttgt gcttcttgag aactatcaac aacttctcgt cttgcttagc agcaagggag 180
 gcagagatga tcaactngaa attttccctg tctccaagt aagcatattt gaggggttctg 240
 gtaagggctt caactctagt gtgggtgggtg gctaaacagt gggaggaacc atggtaggag 300
 aagaaaaagg ttcctcagcc tatacctcat aaagcaagtc agaagtatat gtacctcctg 360
 caacatggnt agtgcattct gactctacaa aatcaacatc aagaggtaca acat 414

<210> 12834
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12834

agcttggtct tgactcatct tctccttgaa gtggcatctc caatcatctt tcttccttct 60
 ccgttccgct gccattgatc ttcaagtagc aaaggactcc attgatgaag aagattgaag 120
 gctacaagc tccacatgga gctacgtcat tgatgcctat agatagtctc ctccaagtcc 180
 ccatgtagaa aagcagttct gacatgctcc aactccatat catgtcgatt cataattgcc 240
 atcaaactcc acaatttctg aggtgccttg atgttatagt tgaagatagg catctattaa 300
 tcccatanat tgtggcactt atagcttcac cccagaaact ctttggtagt cctacacca 360
 aacgcataca cctcacagc tctagaatga tctattcat cctctcagct agaccatttt 420
 gtcgaggagt ctatgccaca atcctatgcc ttttgatacc atg 463

<210> 12835
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 12835

ttctctctct cgaagctctt ctctagatac tgaacctggc tcgcagatat acgtcgctgc 60
 ttctctgggt gatgaaagta ctcgcccatg cactcatccc cattgtcgtg catgtcaaac 120
 gcgcggaaga aggagccgtt acaccccttc cctccttctg cttcaaaact catcatggat 180
 ctcgaaacctg aaccagatta taacaaaaac accatccatt agtcataggt caaaaacaaa 240

aattggtgat agagaggtta tattaggttc tttttttt

278

<210> 12836
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12836

cacctgccgc atgcaagctn ggccaaacca aaatcagcaa ctttaggaca taagtttctg 60
tccaagagaa tatttcccgg tttaatgtcg tagtggatta ttctctgttg gcactcttca 120
tgtaagtaag caatgcctct cgcagtacca actgcgatct catgaagctt ttcgaatgat 180
aaggttgtgt tttcgtgaaa caggtacttc tcgagtgcac cattcaccat gtactcgtaa 240
accagtgttc tcaagtgtct ttcgaagcaa aacccatata gacgaactag attaaaatga 300
tggaacttttc caatggtacc cacttctgcc ataaactgct catcaattct cttgtcagaa 360
ctcccacgta gaactttcac ggctacgatg gttccgtngc tgaaacttcc tttataaaca 420
ac 422

<210> 12837
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12837

cgccgccacg gagttntccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaaganat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatggt ccggttagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
ccaagtggag caacaat 377

<210> 12838
<211> 275

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12838

 agcttgaaat tgaacaacgg aagctctcga gataatcgag tggtcataat atttcacaca 60
 gatgtccgat tcgggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120
 gagaaatttg aatggtcata acatttcact cggatgttcg atccggggac ataattttatc 180
 gagacgtctc gaaatgaaca accgaagctc tcgacaaatt agaatggtcg taacttttta 240
 cgcgaatgtt cgantcgggg acataactca tctag 275

<210> 12839
 <211> 447
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12839

 actatgcaaa gagtatccaa ggaaaatttc ttcattctgac ttagaatcaa acttttcctaa 60
 gttttctttt ccattgttta atacaaaaca cttgcaacca aaaacatgaa gatgcgagat 120
 atttggtttc ctaccattaa acaattcata tggagttttc tttaaaatga gtcttattaa 180
 atccctatcc atgatataac atatagtatt aacgacttca tccccaaaat attttggaag 240
 aggagtatca tataataagg ttctagcaat ttcttccaaa gacctatttt tcttttcaac 300
 aactccattn tgttgagggg ttctaggtgc agaaaagtta tgttcaatgc catgtttttc 360
 acanaataaa tcaaattctn ntatttcana ttcactccca tgatcacttc taatagatat 420
 aattctgaga atttttcttat tttgaat 447

<210> 12840
 <211> 512
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12840

 tgccgcatgc aagcttatcc ttattgttgt aggtgtgggt catgtctgtg taaatagaca 60
 aataattcat ttctagaata gttcatnttt ctttaaaacg tggtttataa agatcaaaac 120

attttcaaat cttgggttttg gttcaaaaaca gattttttttt tcccttttcat ttgttcacca 180
 aaaaatgcac acgttttttaa cttcatttaa ttattattga ttaaaacatt ntcatgtttt 240
 gatttgattc aacacacggt tgattntatt tcttctttca tttactcacc aacaattgga 300
 acatatataa tcgtattata taagaaggga aacacattta aatttttgca ttaattttta 360
 taanatatch tttattagaa atcanataac agtataaatt aatatgaaat attgtacatt 420
 tatgtaagaa gatnnntggg ttttaatttc catcaagaat tctacagata tgctgttatt 480
 ataccagaaa ttcaggatta attaaactta ct 512

<210> 12841
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12841

agcttctagt ccttgtggat cttcttcctt cttattcttg aactacactt gtaggttttag 60
 cttgaacttc acctgtaacg tcatcaagtt ctgggtcact caatgttttt gtgttgatat 120
 gcatcattgg cttcttgctt ggatcatgtt tgccttcat ccatgtgttc agctcatcaa 180
 attgcacatc cctactgaaa actattcgat tcgttcttgg atttaagagt ttgtatgacc 240
 ctgtgggatt atagccaaca aagatcatgt gttcactctt gtcacccaat atcttccttg 300
 tatgatcacg aatatgnttg taacatgttg agccaaaaac tctcatatgc ttcacagatg 360
 gtgttttccc tgaccata 378

<210> 12842
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12842

caagtgcttg anagaatcta tgacaatgct tacattgttg agctgcccgg tgagtataat 60
 gttagtcca ccttcaatgt ctctgatcta tctctttatg atgcagatgg agaattcgat 120
 ttgaggacaa atccttctca agagggagag aatgatgagg acatgaccaa gagcatgggc 180
 aaagatccac ttgaaggact tggatgacct atgacaatgg ctagagcaag gaaagccaat 240

gaagctcttc aacaagtgt gtccatacta tttgaataca agcccaagtt tcaaggagaa 300
aagtccaagg atgtgagttg tatcatggcc cacatggagg aggactatat gacaccactt 360
tgcttcaatn ttagagtggg tagtttggct aaataatggc ccaatccttg taaaagtggc 420
tgaccaaaaa tatagtttgt gtaatc 446

<210> 12843
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12843

tgcacttga taatggagac acatgaacag cgctaggcaa cgacattcat ggcgctccga 60
acaaagggtgg agtatggagg attgccttga gggtcgcac ttangcaatc atgaaactaa 120
gctccaaact cgaaagtgga ggacacatga acaaccctaa gcaataatat tcatgtggct 180
ccgaanaagg atgagaatgg aggattgcct tgagggctct ctcttangca atcatggaac 240
acagctccaa actcgaaaac ggaggacaca tgaatgaaac cgcaattcat tcacgtggct 300
ccggaacagg atgagaatgg aggattgcct tgagggctct ctcttatgca atcatggaac 360
acagctccaa tcatggaaca cagctccata ctcgagaacg gangacacat gaatgacaac 420
gccattcatt cac 433

<210> 12844
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12844

tggacttacc ttgaatcaat tcctttgata gccctttga gcctattntc ccctttcttt 60
gttttgaagt tcattacaag ccttaagtga aaaaccatga tatcacctta cccttaagga 120
attntggagc tttggaattg ttctgggaat aagctgggtg ttagtgctta gctntactga 180
gttttaaaag attggctaaa attttggtta aacataagca cttatacaat gaaggaaagc 240
tgaggttgcg gcacatgatg tccaacgtta tgtcaaggaa tcagatcggg ctgcacaatg 300
cacaaggcaa gataaaatgt caaatgaaga attgaagctg caggatccac gatgtcggat 360

acaatgtcca ggacatcctg cccganaata ctggacacat aaatctgtta tatctttaac 420
agaataatgt gcagtttagca acanaattat gcgatctatc tt 462

<210> 12845
<211> 282
<212> DNA
<213> Glycine max

<400> 12845

tgggatatct gatcgagtcc cgtaatctat tgagacgctc gaaattgaat tctgaagctg 60
tgagctaatt caaacgacaa taatgttttg catggatgct tgattgagtc ccgtaataca 120
tcgagacgct cgaaattgaa ttctgaagct ctgagctaatt tcatacgaca ataaactttt 180
gctcggatgt ctgattgagt cccgtaatct attgagatgc tcgaaattga attttgaacc 240
tctgagctaa ttcaaacgac aagtaacttt tactcggatg tc 282

<210> 12846
<211> 423
<212> DNA
<213> Glycine max

<400> 12846

ctgcgcgatg caagcttata attcaatttc gatcatctcg atatattacg ggactcaatc 60
agacatctga gtaaaaaagt tattgtcggt tgaatttgct gagagcttca acattcaatt 120
tcgagcgtct cgatgtatta cgggactcaa tcagacatcc gagtaaaatg ttagtcattt 180
gaattagctc tcagcttcag aattcaattt cgagcgtctc aatagattat gggactcaat 240
cagacatccg cycaaaaagt tattgtcggt tgaatttgct gagagcttca acattcaatt 300
tcgagcgtct cgatgtatta cgggactcaa tcagacatcc gagtaaaatg ttattgtcat 360
tgaattatc tctcagcttc agaattcaat atcgagcgtc taaatagatt atgggactca 420
atc 423

<210> 12847
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12847

agcctttatc tatggcttcc tatgggtggtg atcttgttct tgactcatct tctccttgaa 60
 gtagcgtctc caaccatctt tcttcctttt ccattccact gccattgac ttcaagaagc 120
 aaagcactcc attgatgaag aagatccaag gcctacaagc tntacatgga gctatatcat 180
 gtggtatcaa gagcattttc atctangtga tgttcttttg attcctctat ctttttggtt 240
 ggtcaattca ctataattcc ttgttcttca tcttcttctc catgtatctc ctcaattttc 300
 ttgtagtatg gtgttggtta gtgtagatca aaaaaataa acccgataaa tcttagatct 360
 acactcgctc tngcatatct atgggtgcaa atttatagat aaactcttga atcatgtttg 420
 tgttgattta ggtctatcat ttttantata atatcttgtt tgaacctt 468

<210> 12848
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 12848
 tgtgttctcc cttgtagaac tactaactgc agtaacagtt gcagcccaac tattcggtag 60
 tgatgacaat agaatcatct catcctcaaa tttaatctgc actgactcca actgggcaag 120
 aatagtatta aattcattaa tatgatcagt tacagagata ccttctctca tcttgagggtt 180
 gaacaaccaa cacatcaagt atactttgtt ggctaccgac aacttctcgt acatatctga 240
 taactccttc attaaagcta caatagtctt ctcgtttacg atgttgaacg tgacattctt 300
 agctaatgtc aatctaataca tgccaagagc ttgtcgatta gcaagttcca ttcttcttgc 360
 ttcatgtcgt ctaacttaac cctgatat 389

<210> 12849
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 12849
 tagtttaact attcacacgg atgtccgatt cgggcgcata atatgtcgac aggctcgaaa 60
 ttgaacaaca aaagctcttg agaaattaac tggtaaaact gttccacgga tgtccgatat 120
 catgcgaatc acatatcgag acgctctaaa ttgaacaact gaagcttctg acaaattcaa 180
 ttggcctaac ttttcacacg gatgtcccat acaggctcat aatatatcta tacgctctaa 240

attatacatc agaaactctc ggcacatgca aatagtcata acttttcaca ctg 293

<210> 12850
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12850

accttgggtg taanagttat gtatctttga attgctcgag agctttcatg tttcaatttc 60
gaacatctcg atatattatg cgcccgaaac atacattcgt gtgataaatt atgaccaata 120
gaattttctcg agagcttccg ttgttcattg tcaagagcct ctatattgga tgcgcctgaa 180
tcggacatct tgagtaaaag ttatgactat ttgtattatt aagagcttac gtgcccgaatt 240
ttgagcgtct agatatgtga ttctcatgaa tcggacatcc gtgtgaagag gtatgactat 300
ttgaatttct caagaccttt cgttgttcaa ttttgagcgt ctcgatatgt gattcgcccg 360
aat 363

<210> 12851
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12851

cgtgcctctt cacgtctgga atatgaatgt agcatataga tctaagacc cttangtgct 60
ctgctgatgg ctgttttccg ttccaagctt caattggagt cttgtctttt acagacttag 120
ttggacatct gttgagtatg taaacagcaa tgtggactgc ttcattccaa aatgtgtag 180
gtagtagtct cttcttcttg agcatcgatc tagccatctc cataactgtg cgattctttc 240
tttcagacac tccattntgt tgaggagaat atgcgactgt aagttgtcgc tcaatgcttt 300
catcttcaca aaatctttca aactcgcgag aggtgtactc tttgccgoga tcaattctta 360
gtact 365

<210> 12852
<211> 369
<212> DNA
<213> Glycine max

<400> 12852

attctcttaa ttgccttaag cctcaagcgt agtatcgctt gacgatgtcg gcggttcacgg 60

gtgaatgtag ttccctcgta tccatgtttg tgagcacaaa ggccccttcg gagaaagctt 120

tctttactac gaaggggcct tcatagtttg gggcccactt tcccctatgg cttttaaggc 180

atgagaagac tttcttcagc accagggtccc cttcactgaa cttgcgaggg tgtaccttct 240

tgtcgaaagt gttcttcacc cgtctctggg acaaacgccc atgggtcata acggctagac 300

gcttgccctc tatgagaatg agctgatcaa aatgcgcctg gtcccactct gaatccttta 360

atctggact 369

<210> 12853

<211> 310

<212> DNA

<213> Glycine max

<400> 12853

agcttcccat agttctaatt atttcttcta cagtagcttg agagacctaa aaatcctctt 60

aattctttga ctgtcttagg tcttgggcac tgttggttg ccttaatttt atcaggatct 120

ggatgcaccc ctttggcaaa aatcaaagt cccacgtaat tgattttggg cgtgccaaag 180

ctacattttt tgtagttgag tgtcaagccg tgttcttgta gtattttag tgtagtgtgc 240

agacattgaa tgtgttctga ccatgtattg gtatagacca agatgtcatc aaagaaaatc 300

aaaatgaact 310

<210> 12854

<211> 332

<212> DNA

<213> Glycine max

<400> 12854

tgccttttgg ctcttttttt ctgaacccaa atcataccac aggtttggga tcttaataac 60

ttgtgagaaa aaaatccatg gggtaaattg attcaaagta aaactcaagt aactccattt 120

tgtatcttgg atctaaaaca gtagcaactc ctatgatcac atgaatgaca ctccaataag 180

aatcaaattt gtctaacatc ttttttgcca ttttttgaat cacttcatta ggggaattga 240

ccattcaaa taaagccatc ttgatctcac aaatttgagg aaaataaatg ttagcagttg 300

gatattttgt gcttgaaatc atttatgtaa ta

332

<210> 12855
<211> 324
<212> DNA
<213> Glycine max

<400> 12855

agcttgtagc aaatgcattt ctttataact tttagctcgg atatccgatt gagtcccgta 60
atacatcaag acgctcgaaa ttgaatacag aagctcttag caaattaaaa cgacaataac 120
tttctactcg gatgtccgat tgggtcacgt aatatatcga gtcgctcgaa ctgaatacag 180
aaggtgagaa ctaattcaaa cgacaatgac ttttaactcg gatatcccat tgagtcccgt 240
aatatatcaa gatgttcgaa atggaataca gaagctgtga gaaaattcaa acgacaataa 300
ctttttactc ggatattcga ttga 324

<210> 12856
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12856

ntgagcaaat tcaatcgaca ataacttttt tactctgatg tctgattgag tcccgttaata 60
tatcgagacg ctcggacttg aacgccgaag ctctgagcaa attcaaacga caataacttt 120
ttactcggat gtctgattca ctcccgtaat atgtcgagac gctcgaaatt gaataccgaa 180
gctctgagca aattcaaacg acaataactt ttactcggga tgtctgattc agtcccgtaa 240
tatatcgaaa cgctcgatat tgaatgttga agctctgagc aacttcaaac gacaataact 300
ttttactcag atgtctgatt gagaccgctc atatatcaag acgctcgaaa ttgcataccg 360
aagctctgac aataactcaaa cgacaattac attttactcg gat 403

<210> 12857
<211> 334
<212> DNA
<213> Glycine max

<400> 12857

agcttcgata atcaatttca tcgtcttgat atattactag actcagtcag acatccgagt 60
 aaaatgttat tgcggttga atttgctaag agcttcgata atcaatttcg accgtctcca 120
 tatattacgg gactcagtc gacaaccgag tgaaaagtta ttgctgtttg aatttgctaa 180
 gagcttcgat aatcaatttc gaccgtctcc atatattacg ggactcagtc agacaaccga 240
 gtgaaaagtt attgtcgttt gaatttgcta agagcttcga taatcaattt cgaccgtctc 300
 cattatttac gggacttaat cagacatccg agta 334

<210> 12858
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 12858
 agcttattaa aaatatgtat actaaaacaa tatacatgta acacctaaaa gtttaaacia 60
 aaaatattgc ttcaaacgc ttttaatttaa tttatttttag aaatacacat cacttttttt 120
 aaccgttact tataaataat aaaaacaact ttctatacta tttttttaca aaacaaatg 180
 tgatagttgg aaaatgctaa atagttgcat gaaattaaaa taaatgcaaa tgtagagtaa 240
 ttcaatttct atacataaat aaaatgaaac ttgcagtgtc acagagaaat atatggatac 300
 aacccataat agtgtgataa taaacaaaa 329

<210> 12859
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 12859
 agcttctaaa tggatctctt cttgctcact tagtttcaac ttcttttctt ctccaacccg 60
 atcaatagag aagttgtagg tctttacagc ccagtaggct ttgtgctcta tctctacagg 120
 aagatgacat gcctttccaa agacaacca ataaggagac attcctatgg gtgctttgta 180
 ggcaatctta tgcgccccaa gagcatcatc ctgcctagtg ctccaatctt tgctgttggg 240
 ctgcaccatc ttcttctga tgattattat tcg 273

<210> 12860
 <211> 333
 <212> DNA

<213> Glycine max

<400> 12860

ajctttcttat tcttatatta gttttaaaaa tattcaataa ttttcattct aatgatagaa 60
ttcaacttga atttttaact tatttttatt gagtctcatt ttatcttttc ccacacacaa 120
caattcaaat ttgacttgg gaaaattatt ttccaatga ttaagcaacc ttgcttgtag 180
tcatttatac aagcaactta tgtaagcatt ttaaagaatt cattaatttg ttctaatagt 240
attctcaggt cagttaacta caaacaatta tgattcttc aggacacaca tattctcctt 300
gattctcttg aaattgaact cgttatgtac ctt 333

<210> 12861

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12861

ntgaaatgga cattgaggta tctaaatgga tctttgttaa gtggattaag gtataagaag 60
atagcacatg aggtagcaat cacaggctat gtagatgcag attttgcagg aaatgtagac 120
acaagaaagt ccttaactgg atatgtgttt actttgtttg gagcaacaat cagttggaaa 180
gcaaatcaac aatcagttgt tgctctttca acaactgaag cagagtacat ggccctagct 240
gaaggagtga aagaagcaat ttggctaaaa ggaatggtat atgaactcgg aatagcacia 300
ccttgtgcac aattactgtg aagtcaaagg ccatt 335

<210> 12862

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12862

tggagaaggt ggctntggac cagtattctt tgtgttatat aaaactggta tcttgaactt 60
cttctatctt cctttaaaac tttctaaata tagcagaaga ttatttttca gggaacattg 120
atagatggga aagtgatagc tgtgaaaagg ctttcaaaga agtccaaaca agggctggat 180
gagttaaaaa atgaggtggc actgattgcc aaacttcagc accgtaatct tgtaaagctt 240

cttggctgct gcattgaagg agaagaaaaa atgttaattt atgaatacat gcccaacctc 300
 agcttggact gctttctttt tgagtggacc ccttacgatg ttattctaaa catcttagat 360
 aatcagcata tt 372

<210> 12863
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 12863
 agcttctaaa tttttatttg atgaagctct gataccactt gttggacaag tggccttaga 60
 tatcttaaga agggaggggg ttgaattaag ataccacaaa ctatttcccc aattaaaaat 120
 ttactcttc tttaatgaaa atttcaatgc actcttatta tgaattattg taagataatt 180
 caaactaaac ttccttaatg ccaaagataa acaacaataa ataaagaatt ttaagagaag 240
 agaaagtga aactcaggtt ttttactagt tcagccacgc cctgtgcta cgtctagtc 300
 ccaagcaacc cgcttgagat ttccacta 328

<210> 12864
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 12864
 tgcctacaag attgacttgc ctagtgagta ttatgtaagt gccactttca atgtgtctga 60
 tctatctctt ttgatgcag atggaggagc cttggatttg aggacaaatc cttttcaagg 120
 agggagtgat gaagacataa ccaagggcaa ggaccatgaa gcacttgaag gtcccatgac 180
 cagaggcaga cttaaacaag cccaacacat catagagaca aggtctggtca tttgtatagc 240
 tgtcattgat gatgattgaa ggcccaagtg gagaaagatg aaagcccaca cgcagaggct 300
 ctaccaagac tactaattgt tgctgaaggc gcatactaac ttgaaggccc aagctaaata 360
 agtgtttagt tat 373

<210> 12865
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 12865

agctttgagc caactcttac gacaataacc ttttactcga atggctgatt gagtcccgta 60

acatatcgag acgctcgaaa ttgaatggtg aagctctcat ccaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtctcgt catatatcga gacgcttgaa attgaatgtc 180

gaagctctta gccaacacaa acgacaataa ctttttactc ggatgtctaa ttgagtcctg 240

taacatatcg agacgctcga aattgaatgt tgaagctctc agccaattca aacgacaata 300

actttttaca cggatgcctg attgagtc 328

<210> 12866

<211> 330

<212> DNA

<213> Glycine max

<400> 12866

agcttcagat atgttcctta tgcttcatgt aaactcggcc aaaatcgta agggaacctc 60

ggatccctgc tatatacaat actataagga attccatgca acctagctac ttgcttgatg 120

tacaaatcca cgagtttttc cgttctatac gatatatata ccggaataaa atgagcagat 180

ttggtgagtc gaactactat gaccacaca gcatcatgtc cacaactagg ctagcgtcaa 240

ctaaatacag aatccataca tatgctctcc cagcttccat tctggaagtt acaatggcta 300

catttttgct gatggatact ggtgtacaga 330

<210> 12867

<211> 320

<212> DNA

<213> Glycine max

<400> 12867

acctgttcga aagagtgtct gcccttcttg aagatgccca ctgacgaatt aactccttat 60

cttcttcaag ataatcactt tttactcgtt cattgaaatt ggcccattca tctacagtac 120

attaatgaca tacagtaaata gagtgcacat gtactaaaga agggtagaaa tgtatggaag 180

catataaaat actcaccagg atatatcttt ttcaggtaga ataaaattga tattccatct 240

tcattttcct tattgagttc ctcatcagaa tataacaacat cttctttgaa atatgggtgc 300

agaacactga agcaatactc 320

<210> 12868
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 12868

tcaaccacag cagaacaatt atgacctctc caacaacaga tacaacctg gatggaggaa 60
 tcaccctaatt ctccagatggc ctagccctta acagcaacaa cagcagcctg ctctctctctt 120
 ccaaaatggt gttggcccaa gtagaccata cattcctcca ccaatccaac aacagcaaca 180
 gccccagaaa taaccaacag ttgaggcccc tccgcaacct tccctcgaag aacttgtgag 240
 gcaaatgact atgcaaaaaca tgcagtttca acaagagacc atagcctcca ttcagagctt 300
 aactaatcag atgggacaat cggctacata attaaatcaa caacagtgcc agaattctga 360

<210> 12869
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 12869

tataaaactc agcttctttac atagtcggcc ttgcttgac cttctttttt cttaaaaaca 60
 gaaacattag gcataggcaa aagatcaaga ggagttagtg gattaaaacc ataaacaact 120
 tcaaaaggag aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg 180
 ggtaaacaag cttcccaagt ttttaagttc ttctcaaaa ctgtcctaag caaagttccc 240
 aaagtcctat taacaacttc cgtttgccca tcggtttggtg ggtgacaagt gggtgaaaat 300
 aacaatttag tgcccaactt gctccacaaa gtctccaaa attttttttag gaacttagag 360
 tccctatcac taacaatgct ccttggcaga ccatggagtc tcacaatctc cttgaaaaac 420
 aaatcagcca catgggaagc atcatcaact gttttacat 459

<210> 12870
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12870

atccaaaaaa tgtgagtgcc atcaccttga ggtttggcaa gcaaattgaa gtgcctccac 60

cagtagtcat gatgcaagct ccattggagc ttgtaggcct aggatcttct tcatcaatgg 120
 attcctttgc ttcttggaag ataaatggca gcggaatgga gaaggaagag agagaggaga 180
 cgccacttca aggagaagat gagtctagaa gaagctcacc accataggag gccatggata 240
 agagcttgga ggaagaagga gatgaatgaa gggagagggg gagaagagca cgaaattttg 300
 tgctcaaaaa gagctctgaa atctgaagtt aatattcaaa tgatcaaagn tcaaaaaaat 360
 gcacacacat gacctctatt tatagcctaa gtgtcaca 398

<210> 12871
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 12871
 tctcgtcatt atatctagca gtctttcact tgatcttgag gataagttgt tgcttgtttt 60
 gagaggccaa aagaagttgt tgcttctcgt cattataatt ctctctttga tgcattgttg 120
 gatagcctct ctagagttct tgaccgatgc attgagacta accttggtct taactttgaa 180
 aattgtcatt ttatgggtcca tgaatgtata gtcttaggac atttggtctc taatagaggt 240
 attgaggtca ataaggccaa gatcgatggt attacttttt ttctttacct cgcttctgtg 300
 taggaagtac tttcttttct tggacatgca tgtttttaca tgagattcat ccaagaattt 360
 agcaagattg ccttgccatt attcaagctt ct 392

<210> 12872
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 12872
 agcttagaga agatacatte tctcaaataa ttcgtcaatc aactcatcca ctgttggaat 60
 tggaaaacta tccttgatag ttattgcgtt aagagctcta taatccgtac ataccggcca 120
 cgaaccatct ttcttcttca caagaattat tgggtgaagag aaaggacttt tgctggggtg 180
 tataattcct tcttgagta tacctgccac taatttttcg atttctctct tttggctatg 240
 aggataacga tatggcttta ctttaactgg tactgaatct tccattaatg gaataaaatg 300
 atcttggtgt tgaggagggtg gcaatga 327

<210> 12873
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 12873

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agctttgac taccaccttc gtctccacca tcattttagt tttctcttta ttttaatat 60
agtagtactt tgatttccag cctgttattt cgctatatta ttatgacatt tgaacaattt 120
agtaactctt tatttgcatt gtgtgtttga acaattatga attatgttat atgactatgt 180
gatttttcta tatatttgat ctagtcatgt ttcttgcttc atgattagtt tatatttctc 240
catgattggt gtgtgaatga ttagttgtat ttgtatgttt cataacttgtt acgcactttg 300
gctttttggt gatgccaaag ggggagagaa a 331
```

<210> 12874
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12874

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gagtctcctt acattaaaaag atcttctctt tttgttggaa gaaaaccatc atctctcact 60
tacttagagg aactatgaga actcttagat gactcactat ccacctctcc attctccaac 120
ataatcatgg tcctttttggt aggacattgg gatgcaatat gaccttttcc caaacaatta 180
aagcatttaa tggaactagt tatattggga aggggttgag taggagaagt aggattacat 240
cttgaagact tcctttcaag atgctgtgaa gaagaaccct ccttctttaga agtgtcttta 300
tccttccaat ttgaaagggt agtcttcttg taggtttggt tcctcttcaa ttgttgctcc 360
actttcatag tcctatgtan taagtcctcc atgttgttgt agctttgaag ctctacaaca 420
tcttgaatgt ccctattc 438
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<210> 12875
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 12875

ttcttgactc atcttccctc tgacatgttt tcttcttcac ctttctctct tctccattac 60
 gctgcctttg atcttcaaaa aataaaggac tccattgatg aagatacaag gcttacaagc 120
 tctacatgga gctaaatcat gtggtatcaa agcatcttca tctaagtgat tatctttagt 180
 tatctctatc ttttgatcag tcaattcact ttaattcctt tctttatcga ataattccatg 240
 tatctcttcc attgaggatt gaggctgttt aaagtacata acaaaaataa accgattaaa 300
 tcttagatct acacttggtc ttgcatttct atggttcaaa atttataaat ccactattaa 360
 atca 364

<210> 12876
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12876
 agctttaaga tacttctttt acttgcatgt agtgtgttag tgcttagctc taccgagtgt 60
 ttaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa ggaaagctgg 120
 agttgctgca catgatgtcc aacgctatgt caaggaatca gattgggctg cacaatgcac 180
 aaggcaagat aaaatgtcaa atgatgaatt gaagctgcag gatccacgat gtcggataca 240
 atgtccagga catcctgctc gaaaatactg gtcacataaa tctgttatat ctttaacaga 300
 ttgtgcagga tccacgatgt cggatacaat 330

<210> 12877
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12877
 tcatgagaga gtcttagatc agattgagag tttattttat agctatgcta aacaagccaa 60
 ctaatggaga aagaatgttg tctttgaacc cggagattgt gtttgggtgc acatgacaaa 120
 agataggttt gcggatcaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180
 agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccgatg agtataatgt 240
 taattccacc ttcaatgtct ctgatttata tctttatgat gcatatggag aatccgattt 300
 gaggacaaat ccttctcaag agggagagaa tgatgaggac atgaccaaga gcaaggtcaa 360

ggatccactt gaaggacttg gaggacctat gacaagggt ag

402

<210> 12878
<211> 420
<212> DNA
<213> Glycine max

<400> 12878

tttaaataagg ctctgtgggcc aagccaggct tttatgtatg ccgagccgag ccgttaaaaa 60
aagcctatga caggtaatga gctcaagcct tacgtattca actcaagcca agctcaagcc 120
tagtaaagct tggcctggct tggctcattt tcaccctag ttgcgacata attcatacaa 180
agcataagaa taacaagcta aaagcctaag aataacctac tttctcacgg aacaaccgct 240
ccaattcgtg ctggaatctc ttttcatatg catagtagta gtagtagtaa taggttttta 300
tacattgaca tgggcttgga cttgtcgtga cacccttact taagtggggc tccttctttc 360
aatcttggtt gccactgtc ttcacttgc taagtgatgc ttaaaccgct aaattggctt 420

<210> 12879
<211> 331
<212> DNA
<213> Glycine max

<400> 12879

agcttctatt ctcaattttt agtgtctcga tatattacgg gactcaatcg gacatccgag 60
taaaaactta ttgtcgtttg aatttgctta gagcatatat tctcaatttc gagtgtctcg 120
atgtattacg tgactcaatc gaacatccga gtaaaatggt attgcagttt gcatttgcaa 180
caagcttctg atttcaattt ggatcgtctc gatctatgat gggactcaat cggacatccg 240
agttaaaagt tattgcgggt tgcatttgc acgagcttcc gctttcaact acgagcgtct 300
tgatatatta ctggactcaa tcgaacatca g 331

<210> 12880
<211> 345
<212> DNA
<213> Glycine max

<400> 12880

tgccgcatgc cagcttgagg gattcagttt tatttatatt gccggagatg tcgatgatag 60

aaaaagtact accggacttg tattttttat gggcgattga ggttttacat ggaggtctaa 120
 gaagcaaggc attgtgacac tttctactag tgaagccgag tatgtatgct gcaacttctt 180
 gcacatgtca tgccatttgg ctaagaagat tgttggagga acttcagttg ttgcaaaagg 240
 aaagcacaaa gatctatgct gataatagat ctgcccaaga gcttgccaag aatccggcgt 300
 tccatgaacg aagtaagcat atagatacaa ggtatcattt catta 345

<210> 12881
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 12881
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 ttatctaccc acacccctct attaactaaa ttaacctcct tgaaaataat tacgaataaa 120
 aataatgcaa caaataatca aacatcaaac ataattacta ataatatata aatatatata 180
 tcagggtggt acaactctcc caccctttta gaaatttcgt cctcgaaatt taccttactc 240
 aaacaaggat gggtgagctt atcgcattha actttctaata tcccatgtgg catcttctcc 300
 tgatgcacct ccccgatca ccttgaccaa t 331

<210> 12882
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 12882
 ttagaggcat tatctttatg gatctaaatt tgagggtgtt agtgaccata agagccttat 60
 ttacctgttt gataagaaag aacttaacat gagacagacg agatgggttat agttccttaa 120
 gggttacgat tttgagctta gctatcacc aagttaagcc tacgtattac ctgatacctt 180
 caataaaaaa tccctttagg tgtttgcttt gatgggttaa gagttagata tcttatagtg 240
 atttagagac atgagtttag catgtgagat cacctttggg agcattaagt tgggtatggt 300
 gatagtcact actgagctct tgagcgagat ccaggagggt tgaactctga ctccattctt 360
 gttagccac ttagagtcta tagctattgg gagagagagt atttttatag tgggacttga 420
 tggagtcttg agattcaatg atagggtgtg tgttcctagt gtacc 465

<210> 12883
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 12883

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ttagcaactc tttctttttg tttagtcaaa acttctaata ctcttaatat ctccatcatc 60
aatcaacca actcatctga catcattttc caataatggt cgattggaat gtccatttgc 120
ttttgtaccc tggctgattg caaatgtatt tcgaccggaa gtacagcatc atgtccataa 180
gtcagtcaaa atggggtagt attagttgat tccttaggag aatttctaca tgcccataga 240
acttgatcta acgtttttatt ccaattttct ggcttttggg caatgtgttt tttaatcaag 300
ttaattacaa tcttattggc tgcttcgacc tgaccatttg cttgcgcgta atatggtggt 360
gaggttaata attgaaagcc agttttttgg gcaaattctt gcatttttctg tccagtaaaa 420
actgaacctt gatcagtggg aattgtttca ggaataccat acctataaat aatatgattt 480
tgaatgaaac taattactgc ttcctgatca acatttggca aagggactgc ttccatccat 540
tttgtaagta atcgatac 558

```

<210> 12884
 <211> 522
 <212> DNA
 <213> Glycine max

<400> 12884

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taacagcaat aaaaagcatc aaagtaattc atagatttac tcacattaac taccacaagc 60
acgattgaca gtgaaaaatc ataagatttg atttaatgcc taattgcaca cctgacatcc 120
agtagatcaa ctctaactca tgatgataag aaaggaaaca tgcacaacaa caatttcatt 180
accttctctt aatgaaagct gaattgatct cttctctaac tcaacagcat gcttgctaag 240
ttcaactgag gacagggagc gaagcactgc caaaggatga gatatcagct atataaaata 300
tcaagaactt cataagaaag catttgaggg attattttta ggttcttggc catactttgg 360
atatattctt cttgatctga ttggtccaat ttcctcaaaa acatctgcaa ttgttggtat 420
cgctctttcc agtgcaaatt ttttaatccc tttggattac caatggtagt agggccagaa 480
aaagctgtca cataattgga ctcaactggg gctaacttca tg 522

```

<210> 12885
 <211> 554
 <212> DNA
 <213> Glycine max

<400> 12885

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tcacatggag ctacatcatg tggatcata gtcaccatc aaaacttggg gtgttacaat   50
caccaccacc accaccatca atgtctctgc caccatcatt gtccctgcc ccaccatcat  120
tattaacaat accacctctg tcattgccac cacaaccact accaaggcca ttgcaaccac  180
caccacaccg ccacaccaa tategctacc tccaccaccc caccatcgac attgctacca  240
ccccactat cgctgccacc acctaaagtg acaaattacc aagaagagga gttgaattgg  300
ggttttgaaa actttttgat cctttgaaat aaaagggtta tgatgatatt ttaaaattaa  360
aaactatttt gaactcacia tacaattca agttgttcaa aatgcacaaa tatttgcata  420
ctggttcacc ttaaccttgg gctatgtcca atcctcatcc ttcaagagga gaatttatct  480
aacacaacca aattacaact ataccggcaa acactaaatt tcacatcctt aacagttcct  540
cactggactt taaa                                     554

```

<210> 12886
 <211> 608
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12886

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cacagcttga tgagaaataa atgttttgct tggatcata tctatgctac ttaatgagat   60
cattacatta tttgtgtctt aataggaagt gaaggacata cattagagga agccaaatct  120
atcaatctat ccttgagtgc attggggaag tgtattaacg cacttgcaga gaatagtgc  180
catgtgccat ttctgactc agcttactag attgctacgt gattcatttg gaggtaagat  240
tcagtgahta taataattca tttttgtct ttgttcattt atacaaagca gtaagatttg  300
gcaaaatact cttcctaact ttcaggacgt gagacagatg aagtcgagcc cataccgat  360
gctctgccta atctggaaca gtaagctgcc taatgtgtct ttgatgcatt ntagaagtct  420
aatcggttaa aaaataaaag caatcactcc ataactgatg tttttatttg gaaatgttaa  480
ttaaatttgg tttgatataa aggaaactaa ttaaatgga tttttgaaaa ataattattt  540

```

anattaaaat ggatatttga aaattaatta tttaaattaa attcattttg ctagtaaate 600
 taaaatta 608

<210> 12887
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 12887
 gagccaaagg atcccctcgt ctcaaccctc ttgacgttt gaattcagca gaaggactgc 60
 cattcacaat gacagacata gaagctgaag tgaggcaacc cctgatccac ctaatccacc 120
 tctcatgaaa tcccattatt ctgagcatat atagaggaaa atgcccagaa acagaatcgt 180
 aagccttctc aaagtacact ctgaaaacca tgccgggtct cttagatctc ctaacctcct 240
 caaccactta attaaccacc aagactccat gtagcagttg ttccctttaa taaatgggtga 300
 ctgcctttca ttaataatct gaagcatgaa ctttct 336

<210> 12888
 <211> 544
 <212> DNA
 <213> Glycine max

<400> 12888
 tggttaattgc ttcccttgat taagactata tcaccgcaa aaagcatgca atatgggata 60
 atctttttgta tgtccttgat aagtacatcc aagactaggt gaaacaagta aggacttaaa 120
 gctgagcctt gatgtaatcc aatcacaatt ggaaagtcct tatttcacct caaggagtgc 180
 tcacattagt agtcaccca tcatacatgt cttgtatagc ttggatataa gccatgtgta 240
 cgtctttttt ctccaaagtc ttccacaacg tatctcttgg gacacgatca taagcttttt 300
 ccaagtcaag agaaaccatg cgtaggata taagtagaag ggaaagtcaa ttagcatagt 360
 tagactatta ataagttagt tactacagtt aggatattga ttagttgggt aagtgggttag 420
 ttagttagat ggagggggtt gttacatata aataggggaa gaaagatagg aaaatgggag 480
 aacttatcat tgggagattg aacattatct ctttgtgaaa ggagaaaatt tttgtgaagg 540
 gaaa 544

<210> 12889
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 12889

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agctttgaaa aatgatttct atacacaagt tagtcgtttt atgcgactaa cagtcaataa   60
ttcctaattc tcttctaata tttaaagaagc tttcttttagg cagggggttg gcaaagatat  120
cggccaattg attctttggt tcaacaaatt ctagtacaca atcacccttt agaacatgat  180
ctctaagaaa ttgatgecta atttcaatat gttctgttct agagtgcaga ataggatttt  240
tggataggtt gattgcaccg tattgtcaca acggatagga atatgatcaa gcattatacc  300
ataatcagag agttgttgtc tcatccataa gatttgtgca caacaacttt cagcagaaat  360
atattccgct tctatagttg atgaggcaac actattttgc tttttgttat accaagatac  420
tagtgttgaa ccaataaaga ggcgagttcc actagtcatt atccttttga cgacacttaa  480
gcgggattct ttg                                                         493
  
```

<210> 12890
 <211> 522
 <212> DNA
 <213> Glycine max

<400> 12890

```

ggagttttaga gaaggaggca caaatattatg ccaaaaaagg aagggtatca agtttaataa   60
accaaaacct tgaggggggt caatgtaata tactcatttt tttaaccaa atacattctc  120
aattatttta acatttatta tgatcaacat ctcatatat gtagctagga tggccacggt  180
tcaaatagtg tgcaatacac ttggacaatt gtgttttaaa catttattat tgtttataac  240
acttgaatat aaagttattt tgaaaacgta caatttaatg cgatttgtat attatgcaa  300
actatttacc acttacttcc aaaattcatt taataaggga cagttaatat aatttgattc  360
aaaattatct catcaatttt cattaattat atttttaact ttgaagaaat tatgggtttg  420
tttaaataat atttcttttg tttttgggga ttcagatttt atttctttta acgcatcaag  480
tttttatttt agtaacaatt aaaaattata tttttgtaac at                                                         522
  
```

<210> 12891
 <211> 578

<212> DNA
 <213> Glycine max

<400> 12891

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agcttggtct taagatatcc agcttagact ccagagtgtc tgcaagttga agaattcaaa   60
actaaagcag tgggtgaattt atatcaagcc ctagtactct cgacatatcc cattgctttc  120
ctcttcacag attcaatccg ttcttgatca ccttgggact tctcataata aagatacttt  180
ttgaataaga actgtcaatc aagacaacaa aaccctaagt cagtctgact ggaaaaatac  240
aaaacaatgt cagtaaaatt ggtaatatag atatgcccac acccttcact ttttcgggtgg  300
gaggctcaga ctaacagccc ttccaacag tgcacgaatt atatctttgt ctttatgttg  360
aatttcctgt agagtacacg agagaatgtt acgttcaaaa taatatacaa acgcaaagaa  420
tatgagatgg agaaggatat acttgatcaa gataaacact ccataagtct gttctctttg  480
ggtactcccg taggattttt tcaaacatgg atcgccctcg atctagaacc ccaactttga  540
attcaagaat agctgtctga gagaaaaaat taatatgc                               578

```

<210> 12892
 <211> 528
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12892

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agcttggtta ccccatgttg aatttgctta caatagatct gttcatagca ccactaattg   60
ttctcctttt gaagttgttt atggttttta cccactaact cctcttgatc ttttgcctat  120
gcctaattgt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa  180
gcttcattgag agagtcaaag atcaaattga gaggaaaaat aaaagctatg ctaaacaagc  240
caacaaaggg agaaagaagg ctgtcttcga acccgagat tgggtttggg tgcacctgag  300
aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaaggggag atggaccatt  360
tcaagtgttt gaaagaatca atgacaatgc ttacaaagtt gagctgcccg gtgagtatta  420
atgtagtccc accttcaatg tctctgattt atctcttttt gatgcagatg gagaatccga  480
tttgaggaca aatccttctc aagagggaga gaatgatgan gacatgtt                               528

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<210> 12893

<211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12893

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acaccttcat ggaatgggtca acaatatattt atatcattca tagacgatta ctccatatat 180
gcatacttgt tctttatata tgaaaagtca caatctctgg atgcgttcac aacatttaaa 240
gttgaggttg aaaatctact caccaaaaca ataaagtgtg tcacatctga tctgtgtggt 300
gaataatatg gcagatatga ctgttcacgt gaacaacgcc caaggccttt tgctatgtac 360
ctagaggaat gtggaatcat cccatagtac accatgtcng ggtcacctat catgaatggg 420
gtggctgaaa gacgaaacac aactct 446
  
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<210> 12894
 <211> 481
 <212> DNA
 <213> Glycine max

<400> 12894

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actgtccaaa atgctgagcc acattgacca atgctaagc cactttatcc attacttgat 120
actgagtttc tggatcttgt gatattcaac agacgaagta tattggtctt agctcattat 180
tttctcttgg gaggaggact gcacttatgg cttttgcaga gaccgagaag aatactatga 240
gtctcttact agtgcttggg ttcaaaagca ctacaggggt tgcaagcgta actgtcaact 300
gctgaaacat ttcttcacac tcacgttcc attgaaagtt tttctttcta agatgattca 360
tgattggttt ggttatctcg atgaccttg gtaagaatct ggataatgag gttattcttc 420
taactaacct ttgagcttct ttcacgtttt taagactcct catcttcaga gtggcttgac 480
a 481
  
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<210> 12895
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 12895

agcttcttag tctcactga tgaattcgtg gctacttcat tctctcctct aatgacaata 60

gcataccttc tggcactaaa ttgttgggag tttgaagcca tattctcaat taaatttctg 120

gcttcagtaa gggtcagtgc tccaagggct ccaccactgg cagcatctat catacttctc 180

tccatgttgc tyagtccttc ataaaaatat tggagaagaa actgatctaa aatctggcgc 240

tgagggcaac tggcacataa ctccataaat ctctcccagc attcatatag gctctctgca 300

ctgagtcgtc taatacctga aatatacttt ctgatggtt tgggtcttga aatacggaaa 360

tttttttcta aaaatactct cttgaggtca ttccagctcg cgatggacct tggagcaagg 420

taatataccc agtcctttgc cactccctct aaagaatg 458

<210> 12896

<211> 602

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12896

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caatggaaga aaactctccc agcttccctt ctgctctaag atacatgctc ttaaaaggtc 120

ctccaatgac tgaatgggtc gtccagtttg gccatcagtc tgaagatagt aggctgaact 180

cagtctaagc ttgggtccca acaactctgtt caagctctcc caaaatctag aggtaaatct 240

aggatctcta tcagatacta tgctagatgg cacaccatgc agcctacaac ctcaattata 300

tacaaggtagg tcaacttctc caaggaaaat ctaatatata tgggaatgaa gtgagcaaac 360

ttagtgaatc tgtcaaccac aaccctaaata gaatccaaac ctctaggggt tctatgtagt 420

cctaccacaa aatccatgga aatattgtcc cactttcatt gggatatttc taaaagatgt 480

aacttccctg aagggtctctg attgtctatc ttagccttct gacagactan gccaccaaaa 540

catcatcttt aaatcctgat acatcttggt agcactagga tggatgctca nattactcct 600

at 602

<210> 12897

<211> 560

<212> DNA

<213> Glycine max

<400> 12897

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cccgacaaag acactgacaa aaagttatct tctccttttt ggacaaagta tggcaagctg 120
ggggtaagta aattttcttc ccatcagacc ttggatgcaa ttgtgatcgt atccccattt 180
cagcttgatc ttgatgggta ttcaagccat cttttgtctt gccttgaatg ttaaggagcg 240
tcccaatcac actgtcataa acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtctagatc agaccaatac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360
tcttactttt atccttcttt tgggtcttct caaatacagt attcaggtgt tgaacccgct 420
gatatacctg ctcaccagtc aatgttatcg gctcaatatc gtgctcttga cttccattaa 480
aagctttttt cagtcgtcta taaggatgat taggtgttag aaaatggcaa tgectactgt 540
agactatttt tcttccatgt 560

<210> 12898

<211> 555

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12898

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ggaagaaaac tctctcagct tcccttctgc tctaagacac acgccctcaa aaggctctcc 120
aatgactgaa tgggtccattc agtttggcca tcagtcctgag gatggtagac taaacttagt 180
ctaagcttgg tccccaatgc tctgttcaag ctctcccaaa atctagatgg cacaccatgt 240
aacctgacaa tctcacttat atacagggag gtcaacttct ccaagaaaaa tctgatatta 300
atgggaatga aatgagaaga cttattcagt ctatcaacaa taaccagat agaattctaa 360
cctctagggg ttctaggtag tcttaccacg aaatctatgg aaatattgtc ccacttccac 420
tggggtatct ctaaggggtg taacttcctt gaaggtctct ggcgttctat cttagccttt 480
tgacagacta ngcatgcata gacaaactca ctaacctctc tcttcatggt gggccaccaa 540
aacatcattt ttaac 555

<210> 12899
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12899

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 ttaaaagatt ggctaagatt ttgttaaaac ataagcactt atacaatgaa ggaaagctgg 120
 agttgctgca catgatgttc aacgctatgt caaagaatca gattgggctg cacaatgcac 180
 aaggcaagat aaaatgtcaa atgatgaatt gaagctgcag gatccacgat gtcggataca 240
 atgtccagga catcctgctc gaaaatactg gtcacataaa tctgttatat ctttaacaga 300
 ttgtgcagga tccacgatgt cggatacaat gtccaggaca tctgcccga aaatactgga 360
 cacataaatc tgttatctct ctaacagatt attgtgcagt tagcaacaga ttagacgac 420
 tatctctatg aacgaattaa aagatgatta aagtttgaat taaaaacttg aatagttcgt 480
 tcagggatta aagattaaag ataacaacta caagatcaaa ctttatcttt 530

<210> 12900
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 12900

tgacacttgt ggcatttcca tacatgaata caacagttat tctccatcgt gagccaaaaa 60
 tatccatctt ttagaatatt tcgggccttg gcatgcccat tggcatgggt gacaaatgag 120
 cttcatgca cctcccttag tatctgctca acttcacttg catccatgca tcggagttaa 180
 accatatcat gggtttcttt gtatagcacg tccctattca aaaataagtt agccaccaac 240
 ctccgtagtg ttctcttgct attctcaaag gcccattgtg ggtactcttt gtccttaata 300
 tatctctgga tattgaaata ccaagggttg ccatcatttt cctcctatat caaacaacag 360
 tgagcaggct cactgtgaca tctaatttct atgcatggca agtcccatg aaggctcacc 420
 tggaacatag atgacaaagt agcaagggtg ttggccattt gggttttcta tctggggatg 480
 tgatgaaatg atatatcatc aaagtgttcc atcaactctc tgaagcagcc ttgataaagg 540
 attaaacttat ggtctctt 558

<210> 12901
 <211> 562
 <212> DNA
 <213> Glycine max

<400> 12901

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agcttctaaa ctttatacaa gaatgaagct ttgataccac ttgttagaca agtggcctca   60
aatatcttaa gaataggggg gttgaattaa gatattacaa actattttcc caattaaaat  120
tctactttga ttttaatgca agttccaagt tcccttaaag atgagtctct aaaagatgat  180
tcaaaataaa caatctgaac gtaaagttaa agcaataata aataaagaag ttttaagggaa  240
gagaaagtgc aaaactcagt tttatactgg ttcagccaca cccttgtgcc tacgtccagt  300
ccccaagcaa ccgccttgag agttccacta tctggtaaaa accctttaca agttctgaac  360
cacaccagga cagtgatcc tttgtgttca gattgcttta caacaagaga ccctcggctct  420
cttaattcct tttcagaagt atgaagatga gaaaaagaaa tctttcttga aagagataga  480
ttgcataatg aagcactcca ataattcctt attgatttgc agtattttgc caacggatgt  540
tttacaagat tagacatttt tt                                         562

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<210> 12902
 <211> 561
 <212> DNA
 <213> Glycine max

<400> 12902

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tgttcttgac tcatcttccc cttgaaatga cgtctccaat cacctttcct ccttctccat   60
tacgtgcct ttgatcttca agaagtaaag gactccattg atgaagatac aaggcctaca  120
agctctacat ggagctaaat catgtggtat caaagcatct tcatctaggt gatcttcttt  180
tgttttctct atcttttggt cagtcaattc actttaattc ctttctttat cgtcttatcc  240
atgtatctct tccattgtgg attggtgctg tttaaagtag ataaaaaaaa taaaccgatt  300
aaatcttaga tctacacttg ttcttgcat tctatggttc aaaatttata aatctactat  360
taaatcatgt ttttgtgttt attttaggtt ctatcatttt tcagtcataa tcttcttgtg  420
ttgaatctta gatctcaatt ttcttgcaaa atattgatta gaaaagaaaa cacaaaaatc  480
taagtgtaaa tcacactact ttaaaaagca cattctatgt cggttggtta ccacattcta  540

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tgtcggttat aaaccgtcgt c

561

<210> 12903
<211> 565
<212> DNA
<213> Glycine max

<400> 12903

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tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120
tggcttcagc aggagtcatg tctccaaggg ttcaccact ggcagcatct atcatacatc 180
tctccatatt actgagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240
ggtagggggca actggcacat agtttcttaa atctctcca gtactcatac aggtctcttc 300
cactgagttg tctaatacct gagatatact tctgatggc tgtgggtcctg gaagcaggga 360
aatttttttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420
ggtaatacag ccagtccttt gccactcct ctaatgaatg aggaaaagcc ttcagaaata 480
tgtgatcttc ttggacatct gggggtttca tgggtgcagca gacaatgtga aattcttttc 540
aatgtttgtg cgggtcttca cctac 565

<210> 12904
<211> 621
<212> DNA
<213> Glycine max

<400> 12904

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atcaagtcaa gacaatgtgc aacacatgga gtccaaaata tttttggtct cgtgacttgt 120
aaaattttac ctagaaagac caaaatcaat aaacttgtat gagtagtgta acaattaaaa 180
gttataacta taaaaaaaaac ttcattaagc atgattgaat tctcaccgc caacacataa 240
ttacttccat tgtagtcac cacttgaata acattctttt ctccaatctc ctcaacaaag 300
ctatccaaaa gctcaaagat cttctgacca gtcttcatgt attcagaagc atccacactc 360
ctcaciaaatt atgttcccaa cgaacaattt accaaaaagt taatcaaagt tctattcttc 420
caatccgtcc aaccaactga cataattgaa cacccatatt tgattcactc ctctcacga 480

cccccaata agcccttcgt gtattccaac tcttttttaa ggagtggaaac tctcaattca 540
 tgatagcttg gaggctttta atgaggaacc ataggttcaa tcgcctcaat catcaacttg 600
 aaactttttg atttagcaac a 621

<210> 12905
 <211> 516
 <212> DNA
 <213> Glycine max

<400> 12905

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 aggaggagaa caaggaatga tgggtgttct acaccaaacc caattgatgg gattaaactc 120
 aacattcctc catttaaagg aaagaatgat ccggaggcct acttggagtg ggaaatgaaa 180
 atagagcatg tattctcatg caacaactga ggaggacaaa aaggtgaagc ttgccgccac 240
 ggaattttcc gactatgctc ttgtgtggtg gaacaagcct ccaaaggaga gagcatgaaa 300
 tgaagagcca atggttgata catggacgga gatgaaaaag atcatgagga agcgggtatgt 360
 gccggcta at tacttcaggg actttgaaat tcaagctcca aaaactaacc caaggcaaca 420
 aggggggtga agagtatttc aaggaaatgg atgtgctcct gattcaagca aatattgaag 480
 aatatgagga ggtaactatg gctcgatttc ttaatg 516

<210> 12906
 <211> 564
 <212> DNA
 <213> Glycine max

<400> 12906

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 atatatcgac acgctcgaaa ttgaatgctt atgtctcgag caaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtccgt aatatatcga gaccctcgaa attgaatggt 180
 gatgctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcatt 240
 taatatatcg agacgcttga aattgaatac ggaagctctg agcaaattca aacgacaata 300
 actttttact cggatgtctg attgaatccc ataatatatc gacacgctcg aaatagaatg 360
 ttgatgctct gagcaaattc aaacgaccat acacttttac tcggatgtct gattgagtc 420

tgtaatatat cgagacgctt gaaattgaat actgaagctc tgagcaaatt caaacgacaa 480
 taacttttta ctcggatgtc tgattgagtc ccgaatatat cgacacgctc gaaattgaat 540
 gttgatgctt ttagcgaaat caaa 564

<210> 12907
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 12907

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 attgaatagt aggggagcta tgggatcccc ttgtctcaaa ccccttgtag ggagaaattg 120
 cttaaaaggg ctgccattaa tcaaagggtca tataaatgct gagtggaggc aagctgatat 180
 ccaaaccaca tatcacttgt ttcaatctat ttgctaataa cttatctatc acctgtaca 240
 tacatccaat caaggagatt ggtctgtagt catcaaatga ctgggggtgg ctggttttgg 300
 gaattagagc tatgacagaa acattactgc ctataggga gctgccatgc acatggaatt 360
 catctacaaa tattctgaag tcagtgttct tcattttcca gaattgttta atgaatttga 420
 agttgaagcc at 432

<210> 12908
 <211> 490
 <212> DNA
 <213> Glycine max

<400> 12908

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 ttatctaccc acacccctct attaactaaa ttaacctcct tgaaaataat tactaataaa 120
 aataatgcaa caaataatca aacatcacac ataattacta ataatatata aatatatata 180
 tcagggtgtt acaactctcc caccctttta gaaatttcgt cctcgaaatt taccttactc 240
 aaacaaggat gggtgagctt atcgcattha actttctaata tcccatgtgg catcttctcc 300
 tgatgcacct cccagatca ccttgaccaa tggaatctgt ttccctctta cgtgttttgt 360
 tcgcctatcc tcgacctca aaggcaatgt ttcatatgct aaattctcct tcaattgtac 420
 atcatccaat tcaatcacat ggtgttgcaa cctacccttc ggtggggcgg tgacacaaga 480

ctcacaggtg

490

<210> 12909
<211> 474
<212> DNA
<213> Glycine max

<400> 12909

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tccgtgctcg caagatctgt catactgact tttagatctc gccgacgggc tataataccc 120
gagtggttat ccgtataaac tttttgttgt ctataagacg aaaagcctga tagcacgcac 180
agactaacgt cttcttttgc gccctttgta taacggggcc gacactctcc cacactttta 240
gaaatttctt gctctaaatt taccttactc gaacagggat ggtggagctt atcgcatctt 300
acttttctat taccatgggg cgtcttctcc tgatgcacct tcccagatca cctagaccaa 360
tggaagctgt ttccctctta tgagtgttgt tcgcctatcc tccatctcca aaggcaatgt 420
ttcatatgtc acattctact tcacttgtag atcatccaat tcaatcacat ggtg 474

<210> 12910
<211> 413
<212> DNA
<213> Glycine max

<400> 12910

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gattgaggag gacctataaa ccgagcgcag caacatttaa gagaaatgga tctaagtctg 120
aaaacgtgac cgatgttctt gaagctatag actggagggt agaaggagct gttactgcac 180
tcaaagacct aggtgatcaa tgtggtcaga caagtaacac catgtaagac cttcattgtg 240
ctccatcttt ttcattaatt ccttcatctc gttttactat atgtttggat aacacaaaac 300
aatcaattat agcctaaaaa atgatggctc tgaaaaaata gaaatcatta ttactagct 360
ctaccaagat agcataactt attatttctc actatggatc gtatgtgagc aca 413

<210> 12911
<211> 666
<212> DNA
<213> Glycine max

<400> 12911

agctgttggtg agaaccataa gtgtgtgttg ggaattataa aaaaaatctt tgaatgtaaa 60

tagggtttgt atatagaccg tgtgacgtaa agagaaagag ttccagtgcg tgtacagaaa 120

acgtttgtca tgtataagaa tatatatgta caaagaaagg tttgcctcat aaatgaccac 180

aggtgtataa ttttgtgaat gaaacaaaca ggaaaaagaa agaaagaccg cgaagggtcga 240

catgttatag ttaagaagta taaatcattc gtaaagagca aacgtatctt ttggaaacaa 300

gggactgatg ctaagagttt gttttccgga ataaccgaga taagaatgga tgaattcatt 360

gaactaataa aagaacataa tttggaaaca ttgggtctgt ttgtgtaaat tcccaatcgt 420

agtatcagaa tgccatatac aggatgcttg agtgcccacc tggctgtagc catgactaat 480

attgcacgtt gttttaaatc atcattgtca cgcgtgcctt gtggagtaat atgggagttc 540

ggcccagac cyacaccttg acacccaaat ttgtttttgc ccagatatca agattgggtt 600

cccacgataa tagaccccat tgaaacacac cttagacttt ttgaaccttg cctatcaaaa 660

aatcct 666

<210> 12912

<211> 505

<212> DNA

<213> Glycine max

<400> 12912

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tctgattatt tttctcgagt ttggtcgtgg ccatcaactt aaaagaaatg gtgaatatgt 180

tgatgacgtg aagggtcatgg aaaaaatact tcaaacttta tatccaagtt ctgacttcat 240

tgttaccaac attgaagaaa acaaggattt aaagaccatg actattgaac aactcatggg 300

ctccttacat gctttccaag aaaaacaaat aataattatt aaacctagg aggctacaga 360

gcaactacta caactcaacg taaaggaagc aaactttgca aattacaaga gccaaagagg 420

acgatgtccc ggccaatatc gtggacgttg gacatggacc tggaggagaa ggaagaagtg 480

gttacaacaa ccactccaac aaatt 505

<210> 12913

<211> 549
 <212> DNA
 <213> Glycine max

<400> 12913

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 acgagacatc ttgccaaaca aagtcagggt cagcataact cgctgtgct tttcttcca 120
 tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgt 180
 aattatactc tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctgggtc gagaaatcaa atgttgtggt cctgtttatc tacgggtggat 300
 gtacccgggt gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcgctc 360
 ggaagcatct attgttgaga ggtacattgc agaagaagcc attaaatctt gttcagaaca 420
 cttaaagaag gctaaagctg ttgggcttcc aaagtgtcga catgaggaca gagtgggtgg 480
 taagggttca agaggactgc aggtgatcac tccaagtga gaaaatttgt ttgtatgtct 540
 tgaacaaca 549

<210> 12914
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 12914

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 gatacaaagg ttacatttgg caaggggtga gaataacaac acaaacacca ttcaagtatg 120
 aaaacgttac tgatattcct tgggcagtgg attggaggca gaaagggtgat gctacttcaa 180
 tcaaggacca aggccaatgt ggtatgtaac aaaaaaaaaa aaaaaaaaaa acccatgcta 240
 gtgacactac tatatgtttt ctttgtgaac accgccatga aactaagcaa atagggttgt 300
 agctgttggg cattttcagc agttgctgca acagaaggta tctaccaaat aactacagga 360
 aacctagtat ccctctcaa gcaagaagta gtggattgtg atagtgtaga tcatggatgg 420
 gatggaggtc tcaatgaaca tgggttttga tttcttatta aaaat 465

<210> 12915
 <211> 539
 <212> DNA

<213> Glycine max

<400> 12915

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ctctgtggtt tatgtctctc tgccgaccac cacacagacc tttgtccttc tgtgcaacaa 120
tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca tctacaatag acctcctcaa 180
cctcaacagg aaaatcagtc acaacagaac aattatgacc tctccagcaa caggtacaat 240
cccggttgga ggaatgatcc caaccttaga tgggtgaatc cttcacaaca acagcaacaa 300
caaccttatt ttcagaatgc tgctagccca agcagaccat atgttctctc accaatccag 360
catcaacaac aataacaaca acaaccccag aaacagcaaa caattgaggc tcttccgcaa 420
tcttcccttg aaaaacttgt gaggcaaatg actatgcaaa acatgcagtt tcaacaagag 480
gctagagcct ccattcagag cttactaat caaatgggac aattggctac acaattaaa 539

<210> 12916

<211> 526

<212> DNA

<213> Glycine max

<400> 12916

tgcaaagcgg ttttacggac cctttcgcat tcttcaccgt ataggaccag tggcatacga 60
gctggaatta cctctacag tgccgatcca cctgtatctt catgtttcac ttctgaaacc 120
ctgcatcaaa acaccagaca cgcaaatcct tctcttctct gtgacagtcg tcgtcgcacc 180
ttctggaacc aaacccaag caattattgg tcgccgtacg atacctcagg agcagattc 240
aagggaagaa gtcttggtac actgggaggg acaaatgcc a gctgaagcta cttgggaatc 300
taaggctgcc atcgtgcgtt cctttctga ctttgatctt aagggaaga tctattttgg 360
agatatgggt aatgatacta ataggccaga aattgagcat gaacctatct ccaatagtgg 420
gccttcatt gctgcaaaca ggccaaacg aattgtgaaa cctcctgcac atcacaaaaa 480
ttaagtttag taataattat aattaaatga tgtaatcttt taatat 526

<210> 12917

<211> 580

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 12917

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gtctcttgct tcattttatg tgttgtgcaa gtgaaatgca tttaaaagta gcaaagagaa 120
tattgaggta tgtttagggc actattgatt atgggtgtcaa atttgagaag tgtcaagaat 180
tcaagttgta tggattctct aatagtgatt gggctagatc cgttgatgac atgaagagca 240
cttcaagata ctgtttcagc ctaggcacaa gagttttctc acgatgcaca aagaagcaag 300
agattgtagc acaatccact gctgaggctg aattcatagc agcagtaaat caagctttat 360
ggttgaagaa gattctaagt gatttacttt tgcagcagaa gaacaaaact ggaatttttg 420
ttgacaacgt gtgtcatggg aagactaaac atttcaacat caagctctat tttttgagaa 480
agatgcacaa agtggagaaa tgaacttaat ttactgcaag tcttaagatc aactgactaa 540
catgnttaca nagccactgc ctatcaacaa atttgaactc 580

<210> 12918
<211> 531
<212> DNA
<213> Glycine max

<400> 12918

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gcagaggagc ataaaccaca gagtctggcg acaggtgttg atttttgatt catggccagt 120
taggttacca ggttaaccaa ggcacttagt ttacctcaa gcttcttagt ctgagctgat 180
gaagatgaat tcgtggctac ttcattgcact cctctaata caataacatc atttctggca 240
ctaaattggt gggagtttga agccatcttc tcaattaaat ttctggcttc agcaggggtc 300
atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat gttactgagt 360
ccttcataaa aatattggag aagaagttgc tcagaaatct ggtgggtgagg gcaactagca 420
catagttttt taaatctctc ccaatattca tataggctct ctccactaag ttggctaattg 480
cctgaaatat cctttctgat ggccgtgggc ctggaataga caatatggaa t 531

<210> 12919
<211> 444
<212> DNA
<213> Glycine max

<400> 12919

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aagtcatggt gatgagttga tccaatctta caaaaattgt acattactaa tcacctatat 120

aatgagtaac aagggtgcaa ttttagagag attctataag tgtcttgagg catgtaacgc 180

tgcttttgta acaacatgta gacctttgat tgggtagat ggatgttttc tgaaaagtta 240

ttatggtggc catttggtga caaccattgg gaaagatgga aataacccaa tgattcctat 300

tgcatatgta gtagtcgagg ctgaaacat agactcatga ttatggttta ttgacttggt 360

actaaaagac ttggatggga ttactgaaaa aaagtgggct tttatctctg accaacaaaa 420

agtaatatTT ctaaatactt gtga 444

<210> 12920

<211> 346

<212> DNA

<213> Glycine max

<400> 12920

agcttgtcaa tgcattcagg aacctaacaa acaatacaag atgcatcact tccagtcttg 60

ctccaatgaa taaatgttta taagtgaac atgtatgctt attctaactc accccatctt 120

ggagcttgct ctctacagca ggggcaccaa gaagaaatac gttcttctca atcttatctg 180

atactgctc aatcattata tcttgatcag cactgactac attcatggcc ctagagaata 240

tactatcaaa ctccgtgtat tcttctgcat caaggtcacg ataggccagt atcaggggtac 300

tcagaccgc atcagcatat ccatgcacat gtcctatggc tttctc 346

<210> 12921

<211> 523

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12921

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cattgaaaaa ctctttctct ctataccgac atgggtata taaaatctct attccttttc 120

aaagatctct tttcccttt tcaatataca ctcatgttt catataaaaa tttcttttca 180

cacattgttt atatacaaaa atttcttttc ttttctttat atacgaatat gacattttgt 240
 ccacaacatc tctttctttc tctattcttg gcggtatcac gacgtttttt tcattttatt 300
 ttaggatgac gttcctacaa cagatattat cgacaataat gagataagca ctaacacaac 360
 gatccaaaca aaatgtatgc acaaaacaaa tgacgatcga aacaacaaaa acaaacgtta 420
 gtcctcagag tcatagaaat gagataacat acaaatgata aatgatgaaa catgaaaaga 480
 atacgaatct ggggatccca cngtcatgtg gctccgcatg cca 523

<210> 12922
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 12922
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 aaaatattgc ttcaaaacgc ttttaatttaa tttatttttag aaatacacat aacttttttt 120
 aaccgttact tataaataat aaaaacaact ctctatacta tttttttaca aaacaaaatg 180
 tgatagtggg aaaatgctaa atagttgcat gaaattaaaa taaatgcaaa tgtagaggaa 240
 ttgaatatct atacataaag aaaatgaaac ttgcagtgtc acagagaaat atatggatac 300
 aaccataat agtgtgataa taaacaaaat acattttcat cctttctaca acaaaatata 360
 tgatgcaagc tccattggag cttgtacgcc taggatcttc ttcattcaatg gatacctttg 420
 ctttttcgaa gatgaatggc agccgaatgg agaatgaaga gagagaggag acgccccttc 480
 aatgagaaga tgagtctaga agaagctcac caccataaga ggtcatggat aatagcttgg 540
 aggatgaaga gatcaatgaa cggagaggga gagaagacca cgaaat 586

<210> 12923
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 12923
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 ttccatgtta ttcttttctt gctcgtcttc tttttgctcc tttttttcca tgagatatgg 120
 gtgctaccta aacatacgta tatttttttg aggtattttg ctatatacat gcgtgtccaa 180

ggtatcttgc tacctaaaca tacatatata tgttttgaga gatattattg ctatatacat 240
 gcatatccaa ggtatgttgc tacctaaaca tacatatata tattttgtga agtatttttc 300
 ctacatacat gcatatgcga ggtatctttc tacctaaaca tacatatata ttgtgtgagg 360
 tatgactacc ttacgagctt gtgcttgttt tatttaaatt cctacgatca tgagcaact 419

<210> 12924
 <211> 516
 <212> DNA
 <213> Glycine max

<400> 12924

ttacagcaga tgccactcta ctccatagttc ttgaaggata tgctaacaag gaaacataag 60
 tatattcacc aggaaaacat cgtagtggaa ggaaattggt gtgctgtgat tcaaaagatc 120
 cttccaccaa agcataaaga ccctgggagt gtaactatctt cttgttcaat tggagaagtc 180
 attatgggaa aggtctttat tgacctggga gccaacatta atttaatgcc actctccatg 240
 tgcaaaaggt tgggagagtt ggagatcatg ccactaaaa tgactttaca actggctgac 300
 cgctccatta ccagaccata tggagtaatt aaagatgtgc tggtaaaagt gaaacatttt 360
 atcttcccca cagactttgt ggtaatggat atctgtgaag atattgacat tcctgtaata 420
 ttgggaaagc cattcatggt aactgcaagt tgcatagttg atatgggtag aaagaagctg 480
 gaaatggggt ttgaagaaca gaaaattgat ttttga 516

<210> 12925
 <211> 538
 <212> DNA
 <213> Glycine max

<400> 12925

agcttcttat tcttatacaa gatttaaaaa tattcatatg tttctcattc tcaagataga 60
 actcaacttg aatttttaac ttatttttat tgagtctcat tttatctttt cccacacaca 120
 acaattcaaa ttttgacttg ggaaaattat tttccaatg attaagcaac cttgcttgta 180
 gtcatttata caagcaactt atgtaagcat tttaaagaat tcattaattt gttctaatag 240
 tattctcagg tcagttaact acaaacaatt atgatttctt caggacacac atattctcct 300
 tgattctctt gaaattgaac tcgttatgta ccttaatttt actgaatggg gtgtgattct 360

gtgtatgttt aggagaaaag aaaggataaa atgtcttcgt ctgtggacat gatttttgatt 420
atattgtcat cttaaattca ggggaagaag gaggccaaag ttttcttttt tcttttttaa 480
gggtatcatg attacggtgg ggactattca caatattact taattatgat tattatct 538

<210> 12926
<211> 537
<212> DNA
<213> Glycine max

<400> 12926

ttgaaatgga cattgaggta tctaaatgga tctttgaaag ttggattaag gtataagaag 60
atagcacatg aggtagcaat cacaggctat gtagatgcag attttgcagg aaatgtatac 120
acaagaaagt ccttaactgg atatgtgttt actttgtttg gagcaacaat cagttggaaa 180
gcaaatcaac aatcagttgt tgctctttca acaactgaag cagagtacat ggccctagct 240
gaaggagtga aggaagcaat ttggctaaaa ggaatggtat atgaacttgg aatagcacia 300
ccttgtgtca caatttactg tgacagtcaa agtgccatta gcaaatcacc aaatttacca 360
tgagaggaca aagcacatag atgtgaaact acacttcac agagatgtga ttgaatctga 420
aaaggtaaag gtggagaatg ttttaacaga agaaaaccct gttgatatgt tcacaaagtt 480
cctatccagt gttaagttca agcactgcct tgacttgatt aattttgaag atgccta 537

<210> 12927
<211> 147
<212> DNA
<213> Glycine max

<400> 12927

agcttgcaat ctagtatctt ccaagacttg gctcgtacgc aagacgagcc tagatccccg 60
aatttcgaca aaggcttaca aggtgttctc cctaagattc taaatgagat aaggttcttc 120
aggaaatatg cacaccatgt tgccatt 147

<210> 12928
<211> 344
<212> DNA
<213> Glycine max

<400> 12928

actcggatgt cttattgagt ctcgtaatat atcgacacgc tcgagattga atggttgaagc 60
tctaggccta ttcaaacaac aataacgttg tactcggaag tgcgattcag tgacgtgata 120
tategggacg ctcgaaattg aatggtgaac ctctgagcca actcaaacga caataacttt 180
ttactcggat gtctgattga gtcccgtatt atatcgtgac gctcgaaatt gaatggtgaa 240
cctctgagcc aattcaaacg acaataactt ttactcggga tgtctgattg agtccctaatt 300
atatcgagac gctcgaaatt gaatggtgaa cctatgagcc aatt 344

<210> 12929
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12929

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agaaatcatt ttgcaattat aaaatctaag gtgtctcaag ttaagtagtt actctaacaa 120
atttaatat aaaatagatt tgcgtataaa agtttttaag tctatgtagt attgtagaac 180
ttacaaattt aaaatatata actcatttaa acaatcatga attgtgaata tttttgttcc 240
acgaagtcac aagactgata agtgataatc atgtaaaaaa atagagtcaa ttaagtataa 300
actcgtctac tattactatc gctttatnta tatgattaag aatcgtaccc ttgtcatagt 360
ttctaaaaca tgtacgatat ataattcgtt gaagaagaat cattctc 407

<210> 12930
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12930

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tgatacccca tccttagaga taatatgcc aagatatcct atcttagttt ttccaaaagt 120
acacttcttc tgattggcaa acaaagagtg ttctgatagt ctggccaaca cttgtctcaa 180
gtgctttaa tgacctcct ttgttttgtt gtaaaccaaa atatcatcaa agaaaaccaa 240
gacatacctt cgaagaanag gcttaagggt ggcattcata gcacattgga aagttgctgg 300

agcatntgtt aatccaaatg gcattactag agaatcgtaa tgcccttgat gagttctaaa 360
agctgttttt ggaatgtctg cctcg 385

<210> 12931
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12931

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gaggtatgcc tatgttggtg tggatgattt ctccagattt acctgggtaa actttatcag 120
agagaaatca gaaacctttg aagtattcaa agagttgagt ctaagacttc aaagagagaa 180
agactgtgtc atcaagagaa tcaggagtga ccatggcaga gaatttgaaa acagcaggtt 240
cactgaattc tgcacatctg aaggcatcac tcatgagttc tctgcagcca ttacaccaca 300
acagaatggg atagttgaga ggaanaacag gaccttgcaa gaggctgctc gggtcagtct 360
tcatgccana gaacttcctt ataattctt 389

<210> 12932
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12932

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ttattgtcgt ttgaatttgc tcagagattc aacattcaat ttcgagcgtc tcgatatatt 120
acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg ctccgagctt 180
caacattcaa ttccgagcgt ctcgatatgt tacgagactc aatcagacat ccgagtaaaa 240
agctattgtc gtttgaattt gctcacagat tcaacattga atttcgaggg tctcgatatc 300
ttacgggact caatcagaca tccgagtga tagttattgg tcgttgaatt ggctcagagc 360
ttcaacattc natttcgagg gtctcgatat attaccggac tc 402

<210> 12933
<211> 368
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12933

agtttccgac tatgctcttg tgtggtggat caagctacaa aaggagagag caaganatga 60
agagccaatg gttgatacat ggacagagat gaaaaagatc atgaggaagc ggtatgtgcc 120
ggctagttac tcaagggact tgaaattcaa gtcctaaaaa ctaacccaag gcaacaaggg 180
ggtaactatg gctcgatttc ttaatggatg tgctcatgat tcangcaaatt attgaagaag 240
atgaggaggt aactatggct cgattttctta atggtttgac taatgatatc cgtgatattg 300
ttgagctgca ngagtttggt gaaatggatg atttgcttca caacagcatc caagtggagc 360
aacaatta 368

<210> 12934

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12934

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agatgttctt atcaagtaag ttctcttctg catcaaacia atcaaatttg atcttctgat 120
catctacacc aatttccatt ttacctttcc ccatatccac tacacaattg gcggttaaca 180
tgaatggatg acccanaatc aatgggatgt tagcatcctc ttcaatatcc atgacaacia 240
agtccatatg gaatgtagat tgccgcacct tgaccaaiaac atcttcaatc acgcataga 300
gccatgtaat ataatgatct gccaaactgca atgtcattc 339

<210> 12935

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12935

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tgaaaagtta ttgtcgttcg aatttgctac gagcttcggg tntaaagttc gagcgtcttg 120
ctatattacg cgactcaatg gaacttccga gtgaaaagtt attgtcggtta gaatttgcta 180

cgatcttcga ttntaaatth cgagcgtcta attatgttac gagactcaat cagactctcg 240
 agtgaaaagt tattgtcggt cgaatttgct acaagcttcg attntaaatn tcgagcttca 300
 cgatatatta cgcgactcaa tcggacttcc gagtgagaag tattgtcgta gaatttgctc 360
 gatcttcatt ttaanacga gcgnttgata tatacgggga ctcacgact ttcccaaagt 420
 tggaaaaatg gggtattttg gt 442

<210> 12936
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12936

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 acctgataat gataactcgc ctgtgctttt tcttgcatgc tatatgttagc acagtcattg 120
 atccaacat gtctgatgag ttggaaaatg atgctgcaat tatactctgc cagccggaga 180
 tgtattctcc ctatgctttc ttgacatca tgattcacta gattgtgcat ctggtcagag 240
 aaatcaaatg ctgtgggtctt gtttatctac agtggatgta cccggttgag cgatacatga 300
 agat 304

<210> 12937
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12937

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 tgaaaccact ttagttcttc ctgacagatt agaaatggat gttctaagaa aattcacctt 120
 acctaataat gattgaagtt gggtttctct acttcaattc cctntgatg gataatgaaa 180
 cccaagaaat cacatgcaga tacaccaaaa gcacatttta attgatccat ctttagtcta 240
 tgtggtaag atgattatct ttcgattttg attntacaac aacatcatct atataaacat 300

<210> 12938
 <211> 399

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12938

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agctntacta tgcagagaat atccaatgaa aatactcttc atctgactta gcatcaaatt 60
ntcctaagtt atcttttcca ttattcaata caaaacattt acaaccaaag atatgaaggt 120
gtgagatggt tggttttctg ccattgaaca attcatatgg agttttcttt aaaatgggtc 180
ttattaaagc cctatttaaa atgtagcatg cagtgttaac gacttcagcc caaaagtatt 240
ttggaagagg agtatcattt aataaagttc tagcaatctc ttccaaagat ctatttttcc 300
tttcaacaac accatcttgt tgaggggttc ttggtgcaga aaaagtatgc tcaatcccat 360
gcttatcaca aaataattca aattctttat tttcaaact 399
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<210> 12939
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12939

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gcacaactgc acaggggagaa agtccgcaa aattaaagca cagaaacaat ggcataaatt 120
aatccattgg aaggcataaa tatagaatag tcataatcaa tattaaatat tatccaacaa 180
aaagtaaagt aaattctcca aaggaatgaa atcaacaagg cttactatca atgacactta 240
cactagccca ttctccaagg gtctttgcac ccggaactat cagtaggcta acattgtgct 300
ntgcacaaag ggccttagcc agtataactt agtcaggttg gtcacaatct tctgctagaa 360
cgcagttgca catcatgctt ctcaatccct tttgcacctt catg 404
```

<210> 12940
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12940

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agctntaaca ttaattaa aa gctcactgtt gcagggtgcaa gcacttatgg taattnttat 60
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gcattgtgact gaacttgagc caatttatat gaaataaaat aaatgcattc tcagggtttc 120
 gttttgctga atgctacagg ctttgcaaaa cttttttgct gcttttagtct attctgcaaa 180
 tactagtttt gattctctgc tggagtcact actagcctgt gctaagcctt ctccacagtc 240
 tgggtggcatt gctaaacaag ctntgcattc aatagctcag tgtgttgctg ttctatgcct 300
 tgctgctggg gatcagaagt gttcatctac tgtgaaaatg cttactgaca ttctcaagga 360
 tgacagcagt tctaactcag taaagttttt c 391

<210> 12941
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12941

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 actagaattt gattcanaag ctacagtggg gatcggaata gctaacgcat cccttgcaat 120
 tgcttgtagt attggctact ttaactcatt caatttccac cacattaaga tatcaaaatc 180
 tgaacttctt ggtaaaaatt cctcctctaa gtaatgatct aactcogttt tcatagttga 240
 tgttcttgcc cttttctttc tttgaatgta tctatcataa tcacacaatt tactctnttc 300
 atcacttaac cacattgggtg attanaagaa ctagtagaat cttgatgctc tttggcttga 360
 tattccgaaa ccaaatcata acacaagttt ccgatcctat t 401

<210> 12942
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12942

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 ccagacaaat gagaaagggtg ttcactgttg ctgcgccga cgataccgaa caccaccggc 120
 aacagggcga ggtaaacctc cccagtctcc ttcttgcatt tgatcaaaaa cgcaaaaatc 180
 gcgggtgaaga acggcgctgt tgcgccgatg gcctgcttga aggaaacggc gaggtagcgg 240
 agggaggtgt tgccgcacac gacggagaag cagaagatgg cgctgagagc gaagatcttg 300

aggaactgct tcttggagtg gatgtgctgg

330

<210> 12943
<211> 412
<212> DNA
<213> Glycine max

<400> 12943

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agacctccaa tctttaatgg agaggggttac cactactgga aaacctgaat gcaaattttt 120
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcetta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300
aacataataa catctgccct acgaatggat gaatatttca cggtttcata ttgtaagagt 360
ggctaggaaa tgtgggacac tcttccatta acacatgaag gaactacaaa tg 412

<210> 12944
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12944

ctttccaatc tgacattcac cacagatgct gccttcttct attgtcagat tggcgatgcc 60
tctaacagca cctttgtcaa tgattatctt catgcctctt aagtgcagat gtacaaatct 120
ttgatgccat attctgactt catcttcttt ggaggataga catgtggagg agtagctggc 180
ttcttgaagt gtccataagt aacagttgtc ctttgatctg cttaccttca ttagaacttc 240
actcttctca tttgtcacca agcattctga ctttgtgaag cttacattga atccttcac 300
acacagctga ctgatgctga tcangtttgc agtcagtcac ttc 343

<210> 12945
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12945

ctgcagcttg aattgaatat ggaagctctc gagatataca aatggtcata acttttccact 60
 cggatggccg attcaagtgc ataacatata gagacgctca naagtgaaca acagaagctc 120
 tcgagaaatt caaatggtea taaagtttca catggatata cgattctgtg ctataatata 180
 tcgagacggt cgaaattgaa caacgactcg agaaattcat atggtcataa cttcccactc 240
 cgatgttcga tgcacgcgca taacatatcg agacactcgg atttgatcac tggaagctct 300
 cgagatatac aaatg 315

<210> 12946
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12946

agcttctaga tatattacgc gtctttatcg gacatccgag tgnaaagttc tgaccatttg 60
 aatttctcga gagctttcat tgttcaattt cgagcgtctc gatataattat gtccttgaat 120
 cagacattcg tgtgaaaagt tatgaccact tgaattctcg agagtgtcca tccatcaatt 180
 ttgagcgtct agatatatta tgcgcctgaa taggacatcc gagtgaaaag ntatgaccat 240
 ttgaatttct tgagaacttc cgttgttcaa ttttgagcgt ctccgatatat tatgcgcgca 300
 aatcggaact cccagtgaaa tgttatggcc atttgaattt ctccgatagct tccgctgttc 360
 aattttgagc gtct 374

<210> 12947
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12947

cttgtgtcca ggaggatata gtatgttttt gtaacattca tcaatagtgt gatntgtgaa 60
 tccataatgt gtacaaacct tgcttccttt cctatcaaaa ctccctttat caaagcttca 120
 ttggctactt cctcctcctc tagaagtata atttgagga aaaccatttt tcctataaca 180
 tttgtccact atgtgattat ccttaccaca gtaggtacat gatttcgatg aaagtgagcc 240
 tgttgcatg atgagaactag tgtttcccat cagatcacta ttattgatct gcctttcttg 300

ttgaacaaca tatgagaaga cctttgctat gctaggtaat ggatccatca tcactacatt 360
 ggatcagaca atgccaaaat gataatttat acctctaaga aactgcataa cttgg 415

<210> 12948
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12948

ttgtagttgt gctcgaatgt atgatctatc tccgatgata tatchacacn ctaaaaaggg 60
 aacaacggaa gctcttaaga gatgcaaatg gctatcactt ttcactcgga tgtccgattc 120
 acgtgcatca tatatcgtga cccttgaaat tgaccacaga agctctacgc aaattaaaac 180
 gggcataact attgagtcta atgtatgatc gacgcctatc atatattgtg acgggtcaata 240
 taggacaact gaagctctcg agaaattcaa atcgctataa cttttcactt ggatgtcaga 300
 atcacgtgca tcatata 317

<210> 12949
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12949

aactggatgc attgggtaac ttggtaaccc agctggctnt gaatcagaaa tctgtacctg 60
 ttgcaagggt ttgtggtttg tgctcctctg ttgaccacca tacagacctt tgcccttcca 120
 tgcagcaacc tggagcaatt gagcagcctg aagcttatgc tgcaaataatt tacaatagac 180
 ctctcaacc tcagcagcaa aatcaaccac agcaaaacaa ttatgacctc tccagcaaca 240
 gatacaaccc tggatggagg aatcaccccta acctcagatg gtccagccct cagcaacaac 300
 aacagcagcc tgctccttcc ttcccaaatg ctgctggccc aagcagacca taca 354

<210> 12950
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12950

ctaaccatg gaagcttcta atatcttctc catatcttga gacgggcatg tcttgatgg 60
 ccttgattct cttagggtec actcggaccc cacttctacc tacaacanag acggagaaca 120
 ctatgttata tacacaaaaa ggacacttct ctatatctgc atatagagtg tttntcctaa 180
 ggactgaaag aacttgctg agatgaccta agtgattatg atngcagcta ctgtgcgcta 240
 aattatcatc aaaacaaaca actacatata tacctatgaa atcgctcaca catgat 296

<210> 12951
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12951

tgtgtatcac tatccactac aacagcaaaa tacattgtca ttggaagatg ctgtgccaac 60
 actctctata tgaacaaca acttgaacac tttagggcaa cccttgatcc cattcctcta 120
 ccatgtgaca acatatgtgc tattaatctg tctacgaatg cggtcgtgca ttcgatagct 180
 atacatatat agattagaca tcattgtcta agagatcatg tatcanaaag tgattgttgc 240
 attgagtttg ctgatagtga acatcaacta gccgacatct atattaaacc tctttctgga 300
 gataggttct tctttattat aaatgatcta ggtatcctag atggatcgag ta 352

<210> 12952
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12952

acttatgtgc tcttatgaag tatctatctt tntataaaa naaattgata catagtcatg 60
 agttcaaaca agtgtaagat acgtgctcaa tacatgtata atacattntg tctttgaact 120
 ccttaaacca aattgtggct aatttcctag accaaattta cgctcctcta tttttaact 180
 aaagcacatt tgcatttgta gtttgattgt tggtatcttt atctttntat tatatgtgat 240
 attgacggtg atataattag attatgtagt tntttttaat actttataaa taaaaagcta 300
 taagctttta aaattaatct aatactaaaa ttagaaatac tacaaaatat atttttatca 360
 agaaaatcac agttaaaatt ataaaaaaaa atggtacata natatgttat ttatgtaatt 420

tacatttttaa aagtaattaa ca

442

<210> 12953
<211> 371
<212> DNA
<213> Glycine max

<400> 12953

tgaagcttaa gaaggatctt gcttgatcga tggetcttgg cgtgatcaga tgacattagc 60
caagaatgtc tcgttcaaca tcgtaaacga gaagactact gcagacttaa taaaggcggt 120
atcatatatg tacgagaagc catcgacatc caacaaagta tacttaatgc gtcgggttgtt 180
caacctcaag atgggagaag gtatctttgt agctgatcat attaatgagt ttaatactat 240
tcttgcccaa ttggagtcag tgaagattaa atttgaggat gaggcgaaga cattgattct 300
attgtcatca ttaccagata gttgggctgc aactgttact gcagttagta gttcaacaat 360
ggagaacaca t 371

<210> 12954
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12954

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aggaacaagc ctacgcttgt ggccaaaggt tactcacaac aggaaggtat agattatact 120
aaaacttttg ctcttgttgc tcacttaagg gcgatactca ttntactatc ctttgctact 180
catcatggta tgatgttgta tcaaattgat gtaaaactgtg tgttcctcaa tggacttacc 240
aaggaagaag tctatgtgaa acaaccccct gnngttgaga gttctatcta tctcatcat 300
gttttcaaac ttaataaagc tttgtgtggt ttaaagcaag cttcttgagc ttgggatgaa 360
aagtaagttc gttttaattg aaatgggtta tagaggaaag gaatactatg ctattagaag 420
atatggag 428

<210> 12955
<211> 466
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12955

acaagattat gcttatctta acgcagaaaa tgtcatgcta atccccctga tttgagagcg 60
aactcacgta atctatcttat gcacacgcat acatgtggaa tatccaacca tttatatcaa 120
catagaggct atccaacaca ttctaattgt cacacacata tacgcatttg aaaagaacat 180
acattctcac gcccaaggca ttgcgtcaaa gttcacactt aattatatcc taaacattta 240
ctattacaaa ctacttacac acatttgaaa tatatatcat acaaaattta ttgtttctct 300
cacatttatt tatatgcatt tggaatgcta attacatccc gcacacacct gcattcaaaa 360
agaattccat gctatcatatc atncatttaa gaaaataatc attcacactc tggcaggaat 420
ttcatgcnnn ctttatntac ctatatatac ataccattga aaagca 466

<210> 12956

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12956

tgcacgcttg agagtgaaca acggaagctc tcgnatttta aaatgggtctt aacttatcac 60
acggacgtgc gattcaggcg cataaaatat ctagacgctc catattgaac aacgaatgct 120
cttgagagat tcaaattggc ataacttgct acacggatgt ccgattcacc tacataatat 180
atccagacgg ccgaaattga acatcggaag ctctcgacaa attccaatgg tcataacttt 240
tacaaggaag cccgattcta ggcacacaca tattgagatg ctcttaattg aaacctgaag 300
ctctcagaaa tcaaattggc atacttgtac acggagtccg attagacgca tat 353

<210> 12957

<211> 345

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12957

catcaactat ccatattcct taattcattt aatacatgtg aacttatttc aaggattacc 60
taatgaagac ccctatgcac acttggcaac attcattgaa atatgtaaca ctgttaagat 120

tgtcgggtgta ccagacgaag ctattaggct cagccttttc tcattctcat tggcaggaga 180
 agctaagagg tggatccact cattcaaggg caacagtctg aanacctgtg aagaagttgt 240
 tgaaaagtgc ctaaagaaat acttcccaga gtccaagact gcagaaagga aagctgcaat 300
 ctcttcattt catctgtttc ctgatgaatc cttgagtga gcaatt 345

<210> 12958
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12958

gacaaaagca aggctcttgc tectacgtat cctctaata ggaactcaga cctacgtagt 60
 tctagataac ttgtgagact tgaaaaagtc tccaccggaa gatgctgaca tctccggaaa 120
 ggggtgcagat gaccacattg gcctttgctc atcaatcaca cttgggggtca ctgaatgacg 180
 aggtgcggat aaccgtaagg tgtctccgcg ggctaccagc tcttgggtca tggtaacaaa 240
 tagcgggtgcg gtcgacaaaa gcaaggctct tgcctctacg tatcctccaa tgaggaactc 300
 anacctacgt agttctggat aacttgtgag actctgaaaa gtct 344

<210> 12959
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12959

agctnggatg tctttctctt tggtttgtac cttgcagtct canaactctc ctaaatatgc 60
 tcctttcaat taaactctca aaacattggg ttgtacatct tttaatgcga aacagatgca 120
 acaaaaagaa ggatgctaga ttggggatca cgagttatga taattgatgg aattgcccac 180
 ggagtccttt atcttcacca atattccagg ttccggatca ttcaccgaga tttaaaagct 240
 agcaacatat tgtagacac caacatgaat cctaaaatat cataatttgg aatggcaaga 300
 atatttggtg agaatgaact tcaagcaagt acaaaaagaa tagttggaac atagtaagtc 360
 agataaaaaga atattattaa tgggtataagt aatcatat 398

<210> 12960
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 12960

tctcgatatg tgatgtgcct gaatcgaaca ttcgagttaa atgttatttc gatttgaatt 60
 tcccagagagc ttgcggtatt taattttgag catcttgaca catgatgcgc atgaatagga 120
 catccgtgtg aaaagtttgg accactatat attctcgaga gcttggttga tcaatttcga 180
 acgactcgat atgttatgcg cctgaatcgt acatacgagt gaaaagtgat gaccatttgc 240
 atatatagag agctttcgtt agtcaatttc aatgcgtttt atatattatg cgccctgaatt 300
 tgaccacgct gtgaaagtta t 321

<210> 12961
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12961

tgtgctattc caagttcatt aatcatacct ttaagccaga ttgattcctt cactccttca 60
 gctagggcca tgtattctgc tttagttggt gaaagagcaa caactaattg ttgatttgct 120
 ntcaaactga ttgttgtagc aaacaaagta aacacatata ctgttaagga cttccttggtg 180
 tctacatttc ctacaaaata tgcactctaca tagcctgtga ctgctgcctc gtgtgctgtc 240
 ttcttgtagc ttaaaccagc tttcaaggat ccatttagat accttagtgt ccacttcaca 300
 gcttcctagt gtgcgctgcc aggatctccc atgaatctac ttataatact tacagcatga 360
 gctaagtcag gtctgctgca naccattcca tacattatgc ttccaacacc actggcat 418

<210> 12962
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 12962

tatactataa aagtcattat ctattggatt cgagggataa acctttatag gattttccta 60
 gaatctctac ctggtcaata atgtctagta gcctttgaga gtgacaagtg gctttgacat 120

ataaggggtat gacacctcaa catgaaaact ctatccaaaa tttctaaaca tgaccttgtg 180
 aaaggattac ccaagatcaa gtatgagaaa gatagagcgt gtaaggaatg catcaaagaa 240
 aaacaaacca aatctagctt ttagtctaaa aatgcaataa ctacttcaaa agtcctagat 300
 ttactacatg tagatctttc tggctctacc aaaaccttaa gcctatgtta aaagagatat 360
 gaatttgtga tagatgattt ctttagattc acatggggtt tattcct 407

<210> 12963
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12963

cttgacttgg ttcattntca cccctacttt tccagataca cttggatata tcctatcana 60
 tctaaggctg aaactcttta tgttnttcaa gcttttaaata caatgggttga actgcaactt 120
 aataactaaaa tcaaaaagtg tcaatctgat tgggggggtga attcagacct ttctctgctc 180
 tectaacatc ctatggcatc tntcatagac ttatctgtcc ccacactcat catcaaaatg 240
 gtgtgggttga aagaaaacat agacatanta attgattang ccttacatta ttgcatcatg 300
 cctttntacc cttacagttg tgaattatgc ctttattact actgtctatc ta 352

<210> 12964
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12964

ntgatgcaac atttggagag gttaatgaaa caacgagatg atgctctcta tgagagggtt 60
 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
 gttcctagac aaaaccaaata tgatggtatt aaactcaaca ttctctcatt taaaggaaag 180
 aatgatctgg aggcctactt ggagtgggag atgaaaatag agcatgtatt ctcatgcaac 240
 aactatgagg aggacaaaaa ggtgaagctt gccgccacgg aattttccga ctatgccctt 300
 gtgtgggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata 360
 tggatggaga tgaaaaagat catgaggaag cantatgtgc cggctagtta ctcaagggac 420

ttgaaattc

429

<210> 12965
<211> 269
<212> DNA
<213> Glycine max

<400> 12965

gttcacgagc atgggtggct gctggtggag gcactcgaat tcccttgcta gacctcgagg 60
tgatgacact cacatgtttc agatactgca catattgtcc gaatattgga actgaacctg 120
ggatcatctga gtaacctctt gcccacatctg aattggcaga cctgaatgg aagctctttg 180
ctgttggttaa cattgcatat tctggatggg catttgctc actaactctt ttaaagaagg 240
ttgaggatgg gcattagatg ctggttgtc 269

<210> 12966
<211> 424
<212> DNA
<213> Glycine max

<400> 12966

ataactcgga tgtccgattc aggcgcataa tatatcgaga cattttgata ttgaataaca 60
gaagctctcg agaaattcga atggtcataa cttttcacac ggatgtccga ttcgggcgca 120
taatatgtcg agacgctcga aattgaacaa cggaagctct cgagaaattc taatggatcat 180
aacttttcac tcggaggacc gattcaggcg cataatatat cgagacgctc gaaattgaaa 240
aacggaagct ctcgagaaat tcaaattggtc ataactttta actcagaggt ccgattcagg 300
cgcataatat atcgagacgc tcgaaattga acatcgaaag ctctctagaa attcaaattg 360
tcataactgt tcaattggag gtccgattca gggcgataat atatcgagac gctcgatatt 420
gaac 424

<210> 12967
<211> 183
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12967

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gtgcaaattc aaacgacaat acattttaac tcggatgtcc gaatgagtc cgtaatatat 120
 caagacactc gaaattgaga atnaaagctc tgaacaaatt caaacgacaa ttacttttta 180
 ctc 183

<210> 12968
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12968

ntctcttttg tgcaactatc tcatcctctt tttcaggtgt atgatgaagc ttgacaggtt 60
 caggtgcagg tgttgctact ggtggaggca cttgaatttt gttgctagac ctcaaggtga 120
 tgacactcac atttttcgga ttctgcacag tttgtcagaa ttttggaact gagcttggtt 180
 catctgagta gccatctgcc ccattctgatt tgtcagactc tgaatggaag ctcttgtctc 240
 ttgctaaaaat tgcattttct ggatgggtcat ttgcctcact aactcttcta aggaaggttg 300
 aggagggggca ttagttgctg gttgtctttg ttgtgattgt tgctgggtga ttggaggagg 360
 aacatatggc ttgcttgggc tagcaacat 389

<210> 12969
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12969

tcaccccata ggtcagaacg aatattaccg tctatcaatc gttatctaata aacttctata 60
 cgatgtctat atttgttctc gactactcca tcttctgac gggaattagg acctgatgat 120
 tgacgacgaa taccacctga ttgcataaaa taagccaact catttttata gactccctct 180
 ccattatcat accagactat ctttattgca gtatcaaatt gtctgcttat cattttgcga 240
 aaatcttgaa aaacattaca cacatcactt ctgcgtttta gaagggtataa tccagtata 300
 cttgtacaga ctatcacaaa tgtcacacac 330

<210> 12970
 <211> 424
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12970

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ntagttgttg gtgctgatgt tagtatgatt ggaccgtttg gtgtgggggt ctactctaca 60
tatcttattg tcgaaaaggt cattgttacc accaagcaca atgatgatga gcaatacatt 120
tgggagtcct aagctagagg ttcattgatt ttacctgct tccatgtgct actcgtgcc 180
accatattct ctatctccct ctacttttcc ttacctctca catgattcat tataatgtta 240
tgaatcttgt tatctcaatt ggattccttg attttcattt taatagtcga gaaactaact 300
ctgttgatgt gtatagatgg atattttgag tattngtgct ntataataac tattctttct 360
tcattacaca actctagcat atnctggatt ttagcttacc agtggttgat gactctccta 420
aagg 424
```

<210> 12971

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12971

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gtgtgctatt gctatggctg ctttattatc acaaaacaga tccattgtat cttgagctga 120
acacatgact tcttctacta acctttttta ccagagaagc tcacacactc atttagccat 180
acctctaaac tccgcttctg cactagatag agcaaccacc ttctgttttt tactctctca 240
agagacaaga tttctctcca caaatgtgag gtaacctgat gtgtgatttc tatcagtaat 300
actcctgcc caatctgcgt cagtataacc ttgaatgtgc tgatgctttt ttttgcaaac 360
attagtcttc tcctgggtga agatttcagg acctttatat caaa 404
```

<210> 12972

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12972

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gtgggtactt cacataaact tcatttatga atccatttag aaaggcactn tngacatcca 60
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tctgatacag nntaatgtct ttgtgtgctg catangctaa gagtattcta atagcttcta 120
gtcttgctac tagtgcaaag gtctcttcat aatcaatccc ttggtgttga ttatctcctt 180
gagcaaccag tctagctttg tttctaactg cttctccttc ttcattgagc ttgggttttga 240
acacccactt ggttccaatc actgattgat tcttaagagg nggaacaaga ttccagaact 300
ngttcttaat gaattgatta gttcttcttc catagtagtc acccaagaat cttcactcag 360
tgctttatca ata 373

<210> 12973
<211> 395
<212> DNA
<213> Glycine max
<400> 12973

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gtctgggtca atgttctttt gcagatacca tacagatctc tgtccttctt tacagcaatc 120
tggagtcaat gagcaacctg aagcttatgc tgcaaacatt tataatagac ctctcagca 180
gggaaaccaa caacagcaga ataattatga cttttcgagc aatagatata atccagggtg 240
gaggaatcat caaaaatcga gatggacaag tctccacaa caacaacagc ctgtcctctc 300
tttccagaat gctgctggtc caagcaagcc atatgttctt cctacgatgc agcagcagtc 360
acaacaaaga ccacaagaaa ctgatgctcc tcttc 395

<210> 12974
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12974

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aacactcatc ctcttgctga actacctgtg gctaagcgag gctgaatcgc taagcccagg 120
taacttaacc attttttttt gtgatagcca catgttagac aagtggcctc agatatctta 180
agaagggggg ttgaattaag atatcccaa ctacttcccc aattaaaaat ctatttatct 240
ttttattcaa attataaatt cccttaacaa tgaacttctt aaatattgat tcaaataaaa 300

caagttgaat atgaatataa agcaataata aataaaggag ttttaagggaa gagaaagtgc 360
aaactcatat ttatactggg tgggccacac ccttgtgcct acgtccagtc cccaagcaac 420
ccgcttg 427

<210> 12975
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12975

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acaacagcat aataattatg atctttcaag caacagatac aatccaagtt ggaggaatca 120
tccaaatctg agatagacaa gtctccaca acaacagcag cctgtccctc ccttccaaaa 180
tggtgctggt ccaagcaagc catatgttcc tcttctaag cagcaacaac aaagacaaca 240
agcaaccaag gctcctcctc aaccttctt agaagagtta atgaggcaaa tgaccatcca 300
aaatatgcaa ttfcagcaag agacaagagc ctccattcag agtctgacaa atcagatggg 360
gcagatgact actcagttga accaagctca atcccaaat tctgacaaat tgccttcaca 420
gact 424

<210> 12976
<211> 421
<212> DNA
<213> Glycine max

<400> 12976

ctagaccttg ttgaagagac aaaatgatgc aatcctaccc cgcattgggca ttggctagaa 60
gactccaagt agattgggct agagatccaa ggaaaggccc tagggttctc atgagcctta 120
gggtagatgt cgagcccatg ggctaagtat gagcccgctt atctttgtaa atattagaat 180
aggttatctc ttcgtctagg ccttgtatgt tggccattct agtagtatag gggttttagcc 240
ttgtatttcg gggcattttg agctgtgttt gtaataagga cttttttttg ttattttcat 300
gttttttgtc atgggggtga gcttagctat tatagggggg gtgtagctaa gctctagctt 360
ctcatctcaa ggaggtgagc ttagctatta tagaggtata tgtagctaag ctctagcttc 420
t 421

<210> 12977
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12977

ttaagtcacc tgcngctgca gctntcactc gcatgtccga ttaagcgcac attgtatcga 60
 gacgctagaa atctaacaaa ggaagctctc gagaaattca aatgggtcata acttttcact 120
 cgcattgtccg attcaggcgc ataacatata gagacgctcg anattgaaca acagatgttc 180
 tggagaaatt caaatggtea taacttttca ctcggtatgc ccattcacgg catagcgtat 240
 cyagacgctc gacattgaac aacgggattt gtcgagaaaa tcaaatgggc ataacttttc 300
 act 303

<210> 12978
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12978

tcttanagag gatgaagggg tacaaaaact caaaagtagc ccttttgtca aagagctaac 60
 tcaatatctc tctcttaagt tttagctttg atatcaataa atgaaagaca atacttgtat 120
 tttcacaagt tttccttggt attgcaattt ttcaaaagtt attcctttctg ttttgacatg 180
 aagcaatagt tctgctctct tttgtgtcta tagctttgtg tccaagatct gatgtttagg 240
 agtatgtttg tgttcttgca tttgaactca atgtggataa tctgagtgtt gcagaatata 300
 tccgactcaa agaagaactt gtagatggat agtaagggtt gtttgactta tctctgttat 360
 gtaaattatt ttctttatta ctattgaatg ttgtatttat tgcttacgat at 412

<210> 12979
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 12979

ttaatatagc gaagaattca ttttgccggc ttgagatgag tagtggttgg agtctccatg 60

tatcgactaa tgagtctaata accatataga atgectgggc ttgtgcacat caaatattgc 120
aaactaccca tcaaactctt gaaatatgta gcattcacct tttctgcttc gtcgaacttt 180
gataacttca ttttgcac 198

<210> 12980
<211> 442
<212> DNA
<213> Glycine max

<400> 12980

tgctcaattg ctccagggtg ctgcatagaa gggcaaagt ctgtatggtg gtcgacagag 60
gagcataaac catagactct tgctataggt acagatttct gattcaagggc cagctggggt 120
accagggttaa ccaaggcatc tagtttacct tcaagcttct tagtttcagc tgatgaagat 180
gaattcgtgg ttacttcatg cactcctcta atgacaataa catcatttct ggcactaaat 240
tgttggggagt tggaagccat cttctcaatt aaattcctgg cttcagcagg ggtcatgtct 300
ccaagggctc caccactggc agcatcaatc atacttctct ccattgttact gagtccttca 360
taaaaaatatt ggagaagaag ttgctcagaa atttggtggt gagggcaact ggcgcatagt 420
tttttaaatac tctcccagta tt 442

<210> 12981
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12981

tgtgaaatgt ctcttaataca agttcctgtg aaaagaatta aagcagaatg gtgtgataag 60
aatactgaga ttatgttgaa agtgtgcata gaagagggtga atgctggaaa taaacctcac 120
aaccacttca ctaagcttgg ttgggcaaatt attgcagaaa agttcaataa ggcaacaaat 180
ttgagatatg aatataaaca attcagaaat aggtggggatt ctttgaaaaa ggaatggcaa 240
ttatgggcta agcttattgg gaaggacacg ggtcttggct gggatgggga gaagagaacc 300
attgcagcta gtgatgaatg gtgggaagcc aaaattcagg tatttgttat tcaacgaaaa 360
tagagttttt gtgcattttt ggttttattt tgcttcatct ctgtatatca tcacaacttc 420

<210> 12982
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 12982

agcttgtgac ccaatccaat gcctcttcct tcgtgtccac ggagatatac cagcacaccc 60
 ctaccagcag cctcaatctg ttgcatcgca agtgcaagct gatttccaca gtcacatctg 120
 gcagatccaa atatgtctcc tgtcagacac tctgagtgtg ctctcacaag aacatcttgt 180
 ccgtctccaa tgtcacctg ttaaataaaa aatgtcagaa ccacaaaatg gtttgaagtt 240
 gaccattgaa ccaatcaatc gaagtaa 267

<210> 12983
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12983

ntctgcaggg aagctaagtg tgaagtatgc aatcctgcat aggattggcg ctgcaaactg 60
 ggtaccacc aatcatactt ccactgttgc cacagggttg ggtaaatttc tgtatgctgt 120
 tggaaccaag tccaaattta attttgaaa ctatattttt gaccaaactg ttaagcattc 180
 agaatctttt gctgtcaaat taccatttgc cttcccaact gtattgtgtg gcattatgtt 240
 gagtcaacat cccaatattt taaacaacat tgactctgtg atgaagagag aatcggctct 300
 gtccctgcat tacaaaactgt ttgaggggac acatgtccca gacattgtct cgacatcagg 360
 gaaagctgct gcttcatgtg ctgtgtccaa ggatgctttg attgctgaac tcaaggacac 420
 atgcaagggtg ctgg 434

<210> 12984
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 12984

atatctgctg gctgatcatt agaaccaatg aactcagtga ccatctcctt ggacagaagc 60
 ttctctcgaa tgaaatgaca atcaatctct atgtgcttag tactttcatt gaaaactggg 120

tttgaggcaa tatgaagagc agcctgatta tcacaatata acttcattgg cagctcttca 180
 caagaccttc attcctgcag aaactgttaa tccacatgag etc 223

<210> 12985
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 12985

tgaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccatagt 60
 tcaatttcga gcttctcgac atagtatgcg cccgaatcgg acatccgtgt gaaaagttat 120
 gaccatttga atatctcgag agcttccgat gtttaatttc gagcgtatcg atatattata 180
 aacctgaatc ggacctcagt gtgaaaagtt atgactatct gcatttccgc agagcttccg 240
 atgtttaatt tcaagcgtat cgatatatta taagcctgaa tcggacatcc gtgtgaaaag 300
 ttatgaccat ttgaatttct caggagcttc cgttggtcaa ttttgagcgt ctgatatat 360
 gatttgcttg aatcggaca 379

<210> 12986
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 12986

taaccacact ggccttgaat cagaaatctg tatctgtcgc aaaggtagt ggattgtgct 60
 cctctgctga ccaccatata gacctttgcc cttccatgca tcaacctgta gcaattgagc 120
 agccttaagc ttatgctgca catatattaca ataaacctcc tcaacctcag cagcataatc 180
 aaccacaaca gagcaattat gagcgtttcg gcaacagata caacctgga tggaggaatc 240
 accctaccct catatggtac atccctcagc aacaacaaca gcgacctgct ccttccttgc 300
 aaaatgctgc tggcccaagc agaccatata tt 332

<210> 12987
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12987

agctntgaga aatatcaatt gacaatttct ntttactcgg atgtccgata gtgtccatag 60
tttatcgaga cgctcgaaac tcacaagcga agctgtgaga taaatcaatc gacaataact 120
ttgtactcgg ctgtccgatt gtctcccgct gtatatcaag acgttcgata ttcagaatag 180
aagctttgag caaaatctaa cgacaataac tctttactcg gatgtccgaa tgtgggtccga 240
agtatatctg agacgctctg aactcacaac ggaagctctg agaaaaatta aacgacgata 300
accttttact cggatgtccg attgtgtccc gtagggatc gagacgctcc aaattctaaa 360
cagaagctct gagcacaatc taatgacaat aactacttac tctgatgt 408

<210> 12988

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12988

gagcaaattc aaacgacaat aactttttac tgcgatgtct ggntgagtc catattatat 60
tgagacgctc gaaattgaat gttgaagctc tgagcaaatt catacgacta taacctttta 120
ctcggatgtc tgattgagtc ccgtaatata tcgagacgct cgaaattgaa tgtttaagct 180
ctgagcaaatt tgcaacgaca ataacttttt actcggatgt gtgattgagt ccctgaatat 240
atcgagacgc tggaaattga atgttgaagc tctgagctaa ttctaacgac aataactttt 300
tactcagatg tctgattgag tccagtaata tatcgagacg ctc 343

<210> 12989

<211> 348

<212> DNA

<213> Glycine max

<400> 12989

atgcagcttg tgggggacat gttgacatgt ttttttatct gacatttata tttaaaattg 60
cctctatcta ttttcagatg gtgaatgcct ctaacaacac cttagacaat gattatcttc 120
atgcctctta gaagcagatg tcaaaatctg tgatgcccta ttctgacttc ctctgctttg 180
gaggatttac atgtggagga gtgactgtgt tcttgagatg accataagta gcggtgttac 240
ttcgaactgc tgccctcat taaaacttta ctcttcttat tagtcaccaa gcattctggc 300

ttggagaagg atacattgaa tccttcgtca cactactgac tgatgctg

348

<210> 12990
<211> 198
<212> DNA
<213> Glycine max

<400> 12990

atttcgagtg tctcgatata ttatgcgcct gaatcagacc tccgaatgaa aagttatgag 60
catgtgaatt tctcgagagc tacctatggt caatttcgtg cgtctcgaga tattatgcgc 120
ctgagtcctga ccttcgaatg aaaagttatg accgtctgaa tttctcgaga gcttgcgatg 180
atcaattttt agcgtctt 198

<210> 12991
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12991

tagcttgga catattatat caatccgagg cctctcttaa gatntagaca aaatatctgc 60
tagttgatta ttgagctga caaactctgt agctatctcc ttggacagct acttctctct 120
cacaaaatga caggcaatct ctatatgtc gggctctctca tgaaacactg gaatagaggc 180
aatacggaag gctgcctgaa ttcacaatac aacattattg gctgaacttc acagaatttt 240
agctctagaa taaattgctt gatccacact aatttccacg tgactgatgc catagccctg 300

<210> 12992
<211> 292
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12992

acttgtagaa gatagtcag aggggtgggct catgggccac tttgggatag acaagacgcc 60
tttcttactc aaagaaaagt tctattggcc ccatatgaag aaagatgtcc ataagcattg 120
cactacgtgt gtggcttggt tacaagccaa gtctanggtg atgcctcatg ggctatacac 180
accettaccc atccccctca caccttgggt agacattagt atggaattnt tcttgggctt 240

cctgaaccca aagaggtgag actctatctt tgtgggggga tagattagca ag

292

<210> 12993
<211> 411
<212> DNA
<213> Glycine max

<400> 12993

agcttggaaac atatgaaatc aatccgaggc cttcttatag atttagtcaa aatatctgct 60
agttgattat ttgagctgac aaactctgta gcaatctcct tggacagcta cttctctctc 120
acaaaatgac tgtcaatctc tatatgcttg gttctctcat gaaacactgg attagaggca 180
atacggaggg ctgcctgatt atcacaatac aacttcattg gctgaacttc acagaatttt 240
aactctataa taagttgctt gatccacact aattcacacg tgactgaagc catagccctg 300
tattctgctt ctgcacttga tctggcaaca tgattctgcc tcttctctt ccaagagaca 360
acatttcttc caataaatac acaatattct gtagtagaac gtctatctat g 411

<210> 12994
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12994

tccgaaacaa aacacaaaac caagcaattc gaaacataat ccatcatcaa caccaccgct 60
accaccatca atatcttctc atgggtgggt ggctttattg gtatttgggc attttaattc 120
acacacttca attctcgtgt tcagtcagaa ccgtccatgg cttgatcca caatcccaa 180
tccaatgcag cagttcaggc tgcacctcc gcaactccta cggcgcgtgg ggcgaccgaa 240
aagactgttc tgccctcaac gtgacatacc caacaaccga agaacagctc cgttcggcag 300
tgtctacgc cgtcagaaac aacctcaaag tcaanggttg taccagattc tccacaccat 360
tccaattat catgcccaca tgaaaatata acaac 395

<210> 12995
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12995

agcttgcac tacatgaatg actcttaagg gaaaatggat ttgaatgaag atcaaaatac 60
tttaaaaaag tatatataac attaaatttt ttaaagcact ttatgaaata accttaagca 120
agtaattcac atatcacatt caaaatcatg cataatcatt taaaaaata gtcattgtat 180
atattcaatt atatcaaaat aatcaacaca agtattgaag aataaagatc acagacatta 240
tctaattttt aaaaaaatc atgctttgag aaagaaaatt aactcaatca aaacatataa 300
acacatactc acaatttcaa tcaatcaaga caaacaata aaatttttgt tagtcatcat 360
ataacaagtt aattgaaagg aaagtttcaa ccaaattaat tntaaaagag aatgggtgttg 420
atgttacctt tttcatgatt taagtgccta gatcttcana gatggaagtc at 472

<210> 12996
<211> 359
<212> DNA
<213> Glycine max

<400> 12996

cttctccatt ccattctgcg tggaaataga cacctccggc gtaggaatgg gtgcagttct 60
atcccagaag aaccacacaa tcgcttctt cagcaaacc ttctgttcta agctccttcg 120
tgcttccact tatgtcaggg agcttgctgc cattaccacc gcctttaaaa agtggagaca 180
atacttatta ggcaatcctt tcaactattct cacagaccac cgtagcctca aagaattaat 240
aggtcaggcc attcaaacac ctgaacagca atgctacctg gcacgattac taggctatga 300
ctatacaatt cactatcgtg tcggaagatc caatgcagca gtcgatgcc tctcacgg 359

<210> 12997
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12997

gcttcatttt ggttntcaaa atcatctaca ataactaagc catagtaatt accacccaaa 60
ctcatagttc ttgaaggacc aaataagtct atgtgaagta gttcatgggg ttttgaagta 120
gaaacgtttt ttcctttgaa aagaattttt aacttgtttc cctttttgac acgcttcaca 180

caattttttt tttcaaactt gagtttttga ataccaatta ctaagtcott ttttaactaga 240
 tgattgaggt gatgcatgtt tatatgtgca gctctacgat gccataacca agaattatca 300
 atcttactta ccaaacaact aagtttatga aatgatgcat gttcaatatt caacatgtag 360
 atattaccta tcctttttacc aatgtgagca acctcaccga acatagcttc actaataaga 420
 caacaattct tgggtgaatt caatttgaag cccttgtcac atagttgact a 471

<210> 12998
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12998

acaagtatca tactctgcct gttccagata atttgaagcc taaagaggaa tgtggattgc 60
 attaactgac aagtatttct aaaaaaagaa agaaaatagc aagattgac catatataca 120
 tgcacagttt gtgaacttag accatcacaa tttatactca ctttggttac tgctcgtaga 180
 acaaagagaa aagtgaata caaatntcta acacgatcag ggtatcttag gactcgggtca 240
 tacatcaaag taacaaagaa atgttgcata gtgaaatgaa attgtgagag caaattgaga 300
 aagaatagat aataattatt aaccactggg aggg 334

<210> 12999
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12999

tgagttcttc ttcactctct cncagactt atcctatcct atgccacca tgtaacttgt 60
 tgcaccagga acttgagca tccactacaa gaagcgaaag taaagggtaa attgatttga 120
 tcaaagctac tatagattca gagtattact aagtactaac aaggtagata catacttgag 180
 caaccttgat tgaattatga gtggcacctt ccagcacaca aacaaaaaaa aaattgtaga 240
 agctgtcatt atgaaatatg cacttccact gttcattnta taaagtttgc ttatgatatt 300
 taaatattaa agcaattata taaaatccaa tactccggat ctaatgcaat acctccaaca 360
 atgttctcca cattataata tttagccaat tcttgatacc tgagacaatt gtgctgatca 420

cataactata gaacgaataa gagagatcta aattctatca aataggagac cgatatccct 480
tcattattga atgagttgta ct 502

<210> 13000
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13000

agcttgtaga ttaattggca tacgaattca tcttctactg aggtcgcgag tatccaaatt 60
catctcctat agattntgag tataggccca gtacttaa at ctttaataata tattttaaaa 120
cataatattc atatttcac tctttaaagt tagaagtaat attttaaatt aatagataga 180
gcagctatgt atgtgtgtgt ttgtttcatg agattagtgt gttatttata caacatttta 240
atctcttcga tgtttctaaa tcataattaa ttgtctcaac tgcattggatg tacttaaaaa 300
acatatttgc ttataattat aaatatcaaa caatcattat acaatatata aatagaggaa 360
ttaaaacaat cttatgaaag ggcctttaat taacatactt ggctagaata aaaattttctc 420
ctcacattta taaaggtaaa actgtataat tatcata 457

<210> 13001
<211> 299
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13001

agctcgattt cttataatga aagagaaaga atattttctt gctggcctta tagtatctag 60
ttgggacccc agcagctgaa gtacatgaca tttctgaagg actcctctgn atgctttggc 120
ttctcatgat ttagtggtgt ggagagcata gcagaagcag aaagcctgtt agcctgagag 180
aatgagccaa aatgggtttt gagatggtgt tgaactgac ttatagcatt ggtccacctg 240
catatgccct gttctttcaa ggcctccacc actccatgct ctaattcctg atgaactca 299

<210> 13002
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13002

gagaacaatg acaattgaag aatcaattca tgcttccttt gatgagtcta atgctatttc 60
tccaagaaag gatattntat atgatattac agaactctta gaacaaatgc acattcatgg 120
acaatattct aaaggaaaag gagaaggaag caatgaagat ccaccaatag aagtcaaagc 180
aaataatgat tttccaagag agtggaagaaac ttcaagagat catcccccttg acaacattat 240
tgggtgacatc tcaaaagggg taacaactag acactctctc aaagatntat gcaataacat 300
gngctttgta tctatgattg aacctaaanaa tntaaatgag gccataatag atgaaaaatg 360
gataatagct atgcaggaag aactaaacca atttgaaaga aataatgntt gggagttagt 420
tgagaaacct ganaactacc caatcatttg aacaaaatgg gtg 463

<210> 13003
<211> 445
<212> DNA
<213> Glycine max

<400> 13003
agcttgaacg aatataagat acatcttctt catctttggt gattcttgac tccatctcat 60
tgaagcgcat atccacttgt aattccaaag tgtcaaacct ttcaccaaca aaggtttgaa 120
gaccatcaaa cctgtccaaa atctttgaag tggtgaagga aaagggtaac aagatgaggc 180
taaagcaatg gagcattcaa tcgcaatgcc ttatgcatgc gatattctaac aagatgtgcc 240
caatcaattt gtagaccttt atgaaaggcc cacataacaa tgagatcttc ttcatatacc 300
tgagcaaggt ttgaagatct cggaagcaag atgcgaacaa ttagttaatg aaggatgcga 360
ctttcaaaag ccaatgaacc ggcaagaaag ctttcggtca tatccgcttg gttggtgcaa 420
accaaccggt gggcatcatg tacag 445

<210> 13004
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13004

tctctgaggt agaagttact tggaatgcta cctgtcatag cattatcata ctattaagct 60

cagaaggaat ttctccatgt agtttgtttc caaccaaatt caggtatgtc aagttagaaa 120
 gatgactcaa agctgttggg attgatccag ataaactgtt attggccaaa ttcagaattt 180
 tcaaagattt aagagatcac ttagaggaag gtaagtcttt ttcaagcatg ttgtntgatg 240
 ctgcaaangt ttggagctct tcacaacctt caatctcttc aggtatgtgg ccattaatgc 300
 tattcatttg tacatcaaga gatattagat gttcaattt accaattcca aagggtatgc 360
 ttccatttaa gtggcagtat cctagagcca acacttttaa ttcactcatg tttcaacact 420
 acgtggaatt cacctgtcgc atgttgctcc tattctagaa ctgcactcc tcaagt 476

<210> 13005
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13005

atgggagnt tganagcngt cttgtnagcc cataaggcgt aatctatctt cacagtccaa 60
 tctttctctg aggatgcaac aatcttctct agaattctct ttagctctct attagacacc 120
 ttgacctggc catttgtctg gggatgatac ggtgaagcca ccttatgttt gacattataa 180
 tgccccaata cctaattgtag aaatgtgaag ccccatcact aattagcact ctgggaacct 240
 aaagcgagag anaatgtttt tcttcaggaa cttgatgaca atcttggcat cattctttgg 300
 tgcagccaca acttctaccc atttggacac ataatcaaca gctaccaaga tgtactcatt 360
 tccatataag gatggtagag ggcccacaat atcaataccc caacagtcan atacttccat 420
 ttcaattatg ttctacaat 439

<210> 13006
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13006

agcttcatgc ttaagtatgt atggcaaaac ttctttactg ttgttcaaga catacaagtg 60
 agcttgtaat aaatcttcta gacttggagt gatcacatgt agtcctcttg aacccttacc 120
 acccactctg tcatcatgcc gagacttaag aaggccaaca ggtttagcct tctcaatgta 180

ttctgaacaa aattcaatgg cttctttctgc aatgtacctc tcaacaatag atgctttctgg 240
 atgatataaa ttctttgtat acccttttaa gatcttcatg tatogetcaa acgggtacat 300
 ccaccgcaa taaacaggac cacaacattt gatttgtgtg accagatgca taatcaagtg 360
 aatcatgatg tcaaagaaag cagggggaga atacatctct aactggcaca gtataattgc 420
 ggcttcattt ccaactcadc anactgacgg atcaacgac 459

<210> 13007
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13007

aagaccttac atcatttatg aaatgcatat tattaccaa tatcaatatg tcateccacat 60
 acatacatta aatgacacat ccactataat caaattgtnt cacatacaca catttatcac 120
 tattatngag ttgaaaatca tatgaaagaa caacttgatc aaactnnttg tgccattgct 180
 ttggagcttg tttcanatca tataaagaat taacaagttt gcaaactttc ttttccatac 240
 ctggctctac aaagcctttg ggctagctca tataaatggt ttcttttaac tcaccattaa 300
 aaanatagct tttacattca tttgatgaat ntccaaatta naaatacaag caagtgcaat 360
 taaactctaa tatagtaatt ta 382

<210> 13008
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13008

tattatgctc ttgcanaatc ctctcatgt tcatttttgg gttcatttca gtgagttnt 60
 tttttttttt gtgagcatca atgtatggaa tcacctctgt tgtattgttt aatacatata 120
 gatgcgcttg tgagacttcg tgctgagtc tttgtgataac gttgaatcct cgtgtaccct 180
 tccccccgg tgtccgacca tggcgacttt cgggcaggcc gacgggttga gcacattcag 240
 tgtactggga gaaaaactca atacactctt cagtaacata cctttogaca attgaagctt 300
 cgggtcggty tagattcttc gtataccctt ttaacacttt catgtaacgt tcaattggat 360

acatccaacg ttaganaaca ggcccacaca ttatgatctt cctcactaca tgaacaat 418

<210> 13009
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13009

tcaagaatta atgggctcat catactactt gtccncgaa tgcaattcaa ttaataggcc 60
 tcacatnttt aatggagtgg gttaccactg ttggaaaacc cacttgcaaa tcttcataga 120
 ggctatagat ttaaacattht gggaagccat agaaataggg ccttatattc ccaccatggg 180
 tgctggaaat acaacaatag aaaagcctat ggaagattgg agtgaggaag aaagaagact 240
 agtacaatat aacttataag ccagaaacat aattacatct gccctatgaa tgaatgaata 300
 ctntatggta tcaaactgta taagtgcaca ggatatgtgg gataccctac aagtaacaca 360
 tgaaggcaca acagatgtta taagatctan gatatacaca ttaactcatg aatatgaact 420
 atttatgatg aatgcaaatg aaagtataca agacatgcaa nataggttca cacacatagt 480
 taatcatctt g 491

<210> 13010
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13010

cgttcctaatt ttctctacaa ttgcatcacc tctcaatgag ctggtgaaga agaattgtggc 60
 atttacctcg ggtgaaaaac aagagcaagc ctttgctttg ctcaaagaan agcttactaa 120
 ggcacctgtt ctagctcttc ctgacttttc taaaactttt gagctagaat gtgatgcctc 180
 tggagtggga gttggagctg tattgttaca aggtgggcac cctattgctt attttagtga 240
 aaaacttcat agtgccaccc tcaactaccc cacctatgat aaagagctnt atgccttaat 300
 aagagccctc caaactttga acattacctt gtttcaagga attgtcattc tagtgatata 360
 aatcactt 368

<210> 13011

<211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13011

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atttccacac atctgagctt catcaagtgg cgtatttccc atctgtcttt ggtaaaaaca 60
ctagctcctc cttctaataag caactttgcc atgaaatata aatcttcagc tgcagcaatc 120
tgaagaggaa cttggaaatc ataattctttt aagttaggat ccatgccatt ggataaaagt 180
cttttaagat aatatgaatc tccccttgca actgcaatac acaaaaaact accaacattn 240
tcaatcttca tagaggcccc ttatccaaca agtaaagaag caataatagg gagcgagagt 300
tgtgaacaat gtgttgcatt accaagacct tgacggccga acatcactgt ccacgaagcg 360
caaaccgcgc ctgatcatg 379
```

<210> 13012
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13012

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tgcaagcttt ganaaattca natggtcata actnttcaca catatgctag attaaggcgc 60
atcgcatata gagagactcg aaaatgaaca acggaagctc tcgagaaatt gaaatgggtc 120
taacttttca cactgagggtc cgattcaagc ttataatata ttgatatgct cgaaattaaa 180
catcggaagc tctcgagata ttcaaattgg cataactttt cacatgaatg tccgattcgg 240
gcgcataata tgtcgagaag ctcgaaattg aacaacggaa gctcttgaga aattcaaatt 300
gtcataactt ttcacacgga tgtccgattc aggtttataa tatatcgata cgctcgaaat 360
taaacatcgg aaactctcgc gaaatttata tggtcataac ttttcacacg gatgttcgat 420
tcgagcgcgc aatatgtcga gaggct 446
```

<210> 13013
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13013

tgcctagagt ttatttaaaa aatgtntntg gatgtaacac ctataanaga acattttcga 60
 aaaaaaaatt tatgatgaga agaagttcgt attgaagttg ggattagagg ctaagaggat 120
 tgattgttgt gtggatgggt gcatgttgta atgatggagc gctaactaaa tgcaagtttc 180
 gtaacaagcc caagtatcgt gcgaaagacta ttggaacaat cattaataaaa ccagttccag 240
 taaaggcaat gttctatctt cttgtaatac caaggttgca gagaatattt gcattgatgc 300
 anattgcaag ccaaaagaca tgacactatg agaatagaag atattcagcc atgttacgtt 360
 atccctcttt tggatgaagcc tagagacact ttgatcaggt acattgcaga ttntctattg 420
 atctgtggaa tgtgcgactt agttatacat agatgaattt aaacat 466

<210> 13014
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13014

gctctcgaga agttcanatc gttataactt ttcactcgga gatccgattc acgcgcataa 60
 taacgtgacg cttgaaatag aactatgaaa gctcttgagc aattcaaagc gtcacaactt 120
 ttcacacgaa ggctcagattc acgcgcataa tatatcgaga cgctctgaaa tgaacatcga 180
 aagctctcaa gaaattcaaa tggtcataac tcttaactcg gaggtccgat tcatgcgctt 240
 aatatatcga gacgcttgaa attgaactat ggaagctcct gagccattca aatggtcata 300
 actcttcact cggaggttcg attcacgcgc ataatatatt gagacgctcc aaattgaaca 360
 acggaagctc t 371

<210> 13015
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 13015

agctagaaga aataagggat taagctttct ctattggctg aagcagatta catacctctc 60
 gaggcattgag cgtcttggga ataactctgc aagagacaac atgacaaata tctcatcaat 120
 ggtgaaagag accaataaaa gcaaacacag tggttactaa ttgaggggtga ggctctatc 180

ctgccttttt cccaacatct gtgtgggaaa aaagagaaag gggaattata aaaagagaca 240
aaagtgaaga gtgtttatgt tacttaccca atgacatggc gaccgccatc atgaacagct 300
tgtgatacta taccattag acctatgctt tctctccat acaccagatc gatgtggctt 360
gagaccttaa ttacaacacc attcaaaaaa caatattaat cagccttgaa tattaaac 418

<210> 13016
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13016

tcaagaaaaa gatggcctca gcaaattcct tatttcaga aaggaattct atcaatagac 60
ctccaatctt taatggagag gggtaccacg actggaaaac ccgaatgcaa atttttattg 120
aggcaataga tctaaatatt tgggaagcca tagaaatagg gccttgata cccaccacag 180
tagaaagaat tacaatagat ggtagtcat caagtgaag cataactata gaaaaaccta 240
gagatacatg gtctgaagag gatagaaaac gagtacaata caacttataa gccaaaaaca 300
taataacatc tgccctgnga atggatgaat acttcanggt ttcaaattgt aagagtgtca 360
aggaaatgtg ggacactctt cgattaacaa atgaaggaac tacagatgtt aaaagatcta 420
ngataaatgc actaactcat gagtatgaaa atatt 455

<210> 13017
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13017

atgcctcagc aacagctttt acttctttct ctggcacagc aaagcatata gaatgtcac 60
tactagccta cataaatact gttaatgatt aatgccattt cttatatatc agcgtggaca 120
actagaaaaa ttgaaaaaag ttataagtgc acctgagata tcatgataac attagctcca 180
acatctttta ctgcaccaa aatagcactg gcagtacctg gaacaccagc cattccagtt 240
ctgcaaaaaa gcatcaaaga anaatttatt ggaatctaca acttggacaa ttaatatgtg 300
ttaaagaaaa ccttatatta aatagaaatc ctcgtgcagc aaaaaatgcc aactattcat 360

catgtaacac aactgcaatt catgactcac cctcgcacgt ttacaa

406

<210> 13018
<211> 331
<212> DNA
<213> Glycine max

<400> 13018

tagtacaatt tgcagcgtct cgacatatta tgcgctcgaa tcggacatcc gtgtgaaaag 60
ttaatgacat ttgaatatct cgagtgttta cgatgtataa ttctgagtgt atcaatacat 120
tataaacctg aatcggacct cagtgtgaaa agttatgacc atttgaattt caccgagagca 180
ttcgtttgttc aatttcgagc gtctctatat gtgatgcgcc ataattgtgc atccgcgata 240
aaagttatga ccatatgaat atctcaagag cttaccgtga tcaattttga gtgtctctat 300
atgtgatttg cctgaatcgg acatccgtgt g 331

<210> 13019
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13019

tttttgtatt tatcacaata tgcaaagag atgatcaaag tctaactttt cccatgcgta 60
aattattctc taggtctgat actatntgca aatctttata taagtttttc ttcttttatg 120
ttntatgatg tgagtgtgat atggcagagc aataaggaaa gcaatttgca tccacaaaac 180
aggagatgca gcttcttgca agtttttgaa taatcccttc atgatcggtt ntgggatctt 240
gcaactnttc ttgtccana ttccaaactt ccatgagctt acatggctct caactgctgc 300
ctgtatcacc tcttttggtg tgtattcatg gcagtggctg tgtctctggt cgtctctagg 360
tactttttgt ctcataaata tcgaatagtg aatataatac cgatntacta tagagttcaa 420
gttctgctgt gctcctcgtt tatatt 446

<210> 13020
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 13020

gctaacatcc ncagactggc cttcaacggt ttctctctct atgccgtctg cgccattgac 60

aagttacagt ctaacaatac taactctgag gaatattcct ctttcattcc gaatcttcg 120

catectatca cgttaaacgc aacaccaccg aagatattga ccgagttcat gaagccactg 180

ctggaaacag agctcanaag ctacggctta atcgtaacg actttgcgga actcggagga 240

gaagagtaca tcgagcacta tgagcaaacc acgggtcaca aggcgtggca tattgngcca 300

gcgtctctta tgtgcaaaag aagccttgaa gagaaagcgg agaggggaca gaatagtgtg 360

gtgggagcgg acgagtgcac gagatggctc aacgggaaga gaggaaatc ggtggtgtac 420

atatgctntg ggagcatgtg tcatttccag gataaacaac tata 464

<210> 13021

<211> 553

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13021

craagcttac atggagctac attagtaagt gtcgaggta caccttcatg cacaggtaac 60

tccccacat ggtgatcacc ctgagtctta agggagttcc aaaaccgagt gacatacccc 120

caagtacaag tatttccctt tatgagaaac ttcaagtact tactcgcaa gtttatacta 180

tttccatgca acatgaagta tgaaacatgg gtaccatcaa tgcacaaact gtggataatt 240

aaagattcta agtcaccccc cttcatagat gcttaaaaact ctctaaccac tctttctctc 300

accagggata tccatcatgg taactgaacc cncatgtac atacacaaca tacatcatca 360

caatgacatt ntcaacatca acaacatttc atctcaatgt cattatcaac atcaacatca 420

tctcatctca atgccattct gaacatcaat atcatctcat ctcaatgaca ttatcaacaa 480

caacatcatc atctcatatc aacataataa ttaataacaa catcacctca tatcatatta 540

tcataacact gac 553

<210> 13022

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13022

tctgggggac atcttgactt gctntccaat ctgacattca ccatagattc tgccttcttc 60
tattttcaga ttgtgaatgc ctctaacagc acctttgtca atgattntct ttatgcctct 120
taagcgcaga tgtccaaatc tttgatccca tattctgact tcattctctt tggaggatag 180
acatgtggag gagtagctgg tttcttgggg tgtccatagg taacaattgt cctttgacct 240
gctgcccttc attagaactt cactcttctc atttgtcacc aagcattctg actttgtgaa 300
gtttacattg aatccttcat cacacagctg actgatgctg atcaagtttg cagtcagt 358

<210> 13023

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13023

ctaagcttaa ccgatatnta agctgttntg tcaccttaata aatgataata tgaatttcaa 60
ccgatcattt gtgttgtaat ctcgtttaat cactgttaaa gtaaaatcta accgatcggt 120
cacgttgtaa cctcggttaa acaaaaaaaaa gcacaataat tataaaataa tcaaaatata 180
tttaaataaa ataataaaaa ataattctatc agacgttntt ctttggaagt ttccttgaat 240
gaattgacta ataaacaaag tgaaactgaa attctgatac caatgccaga tgtcgtacag 300
gatgtcacga catcacgctt cagaacatgc agatta 336

<210> 13024

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13024

cttgtagcta tgacctgggt tgaaaaaagc actacctcta tgtagagtg gtgagagcca 60
aggatnttcc agggaaagat gttactggtg gtgtggatcc ctatgttgaa gagaagctng 120
gaaactacat gggccttacc aagcancttg agaaaaagtc caatcctcac tggaatcagg 180
tttttgctt ctctaaagaa aggattcaag cttttgttct ggaggtagt atcaaagaca 240
aggatattgt tgtggaagac tntgcaagga gagtgatgtt tgatattaat gaaatcccaa 300

aactatattt ccccttttctt atctagttnt cattaacaaa ttcttctata tcttactaat 360
 cttagagaag aaaatatgta ggaagagcaa aattaacccc tacatatgta gcagtatcac 420
 at 422

<210> 13025
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13025

cgtactgcac agttgtgaaa ttccctgtgg ttatatgggt gtctcttaat ttgatcacct 60
 ttgtactaga tntcataatt gttgtaaggt gtttggcttg gttgggcacc acttgtgcta 120
 aattaagtgt tattaataaa tcatttgcct tttaaaaaaaa aattaaactt caccaggaat 180
 tgaaatcatg caagtcgggtg acaattaaag catctaaaat atcaatggcg aaaatatattg 240
 tactcccttg ttttcaaata taaggaaaaa atatattntt ttaatctcaa atataaaaaa 300
 taactaatth cacattatnt aatattacta tatctctcga aatatcttga tntaattgat 360
 gttctagttt caataactat nttttatcat tatactaaat ttcaatgaaa gataaattaa 420
 anaaatattn taattttaa aatacaataa ttaactttnt taatactata tcattttttc 480
 tatatttgaa at 492

<210> 13026
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13026

ctattcaaac cttttccaga ctatccatac aaacatcaaa agaggatcca tatacagtga 60
 aatcatccat aaacacctct atgcaatttt ctaaaaaatc actgaaaata ctgatcatte 120
 accgctggaa ggtaccangg gcattgcaca ggccgaaagg catcctccta taggcaaaaag 180
 tgccgaaggg gtgtgggtttt ttctgatcc tgaggagcaa tagtgatttg catataacca 240
 gaanaaccat caaggaaaca atagtggat ttacctgcca ggcgtttaag catctgttaa 300
 atgaatggca ggggaaaatg tgtccttttg gtaacctgggt tcagcctcct atagtcgatg 360

cagactctcc aactgttctg cacccgagta

390

<210> 13027
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13027

atgtcttatt gaggcccgtc atatctcgag acgctcgaaa ttgaatgttg aagctctgag 60
ccaattcaaa cgacaataac tatttactcg gatgtctgat tgagtcceat aatatatcga 120
gacgctctaa attgaatggt gaagctctca gctaattcaa acgacaatag acttttactc 180
ggatgtctga ttgagtccecg taatatatcg agacactcga aattgaatgt tgaagctctg 240
agccaattca aacgacaata acgttttact cggatgtctg atngagtcce gtaatatatc 300
gagacgctcg aaattgaatg 320

<210> 13028
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13028

tgtcttgaag tctaaagccg atgaaggaca tctgttaatc acataggcta ttgtgtttgc 60
agcttctccc caaaagggtct ttggcagtc agcacttagc ggcattgcacc tcaactcttc 120
caaaatggtc atattcattc tttctactaa tccattctgc tatgggtgtgt gagggactat 180
tatgtgcctt ttgatacctg attntctgca aaactcattg aattgctctg aaacaaactc 240
catgccattt tcagtcctta aaactnttag ttntgtacca agttgatttc caataagagt 300
atgtcactct ctgaattttt aaaagcttct aatttgtgtt tcaaacatac agccatactc 360
ttcatgagaa tcatctatga tgatga 386

<210> 13029
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13029

cttctccatt ccattctgcg tggaaatagt ctcttcggc gtaggaatgg gtgcagttct 60
 atcccagaag aaccacacaa tcgccttctt cagcaaacc ttctgttcta agtccttcg 120
 tgcttccact tatgtcaggg agcttgtcgc cattaccacc gcctttaaaa agtggagaca 180
 atacttatta ggcaatcctt tcaactattct cacagaccac cgtagcctca aagaattaat 240
 aggtcaggcc attcaaacac ctgaacagca atgctacctg gcacgattac tatgctatga 300
 ctatacaatt cactatcgtg tcggaagatc caatgcagca gtcgatgccc tctcacggta 360
 gccaaaagaa gcccacttg gcaatatttc ttctaccatt catacttct tttttttgaa 420
 gaactaaaca acaactctca caatccc 447

<210> 13030
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13030

ttaagcaatt canatgggtca taactntcac tcggaggctg tatttatgcg cataatatat 60
 cgagacgctc gaaattgaac aatggaagct cttgagcaat tcaaattggc ataacttttc 120
 acatggaggt tggtttatgc gcataatata tctagacgct cgaaattgaa caatggaagc 180
 tcttgagcaa ttcaaattgt cataacttgt cactcggagg tgggattcag ggcataata 240
 tatcgagacg ctcgaaattg aacagtggaa gctcttgagc aattcaaattg gtcattactt 300
 ttcaactcgga ggtccgattc aggcacataa tatattga 338

<210> 13031
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13031

tttgagcgtc tggatatatt acgggactca ttcatacatc cgagtaaaag gttattgtcg 60
 tttgaattgg ctcatangtt gaacattcaa tttcgagcgt ctagatatat tacgggactc 120
 aattagacat ccgagtaaaa agtcattgtc ctttgaattg gatcagaggt tcaacattca 180
 atttcgagcg tctcgatata ttacgggact caaccagaca tccgagtaaa acgttattgt 240

cgtttgaatn tgctcagagg ttcaaaattc aatttcgagc gtcccgatat attacgtcac 300
 ggaatcggac atccgagtag aaagttattg tcgtttgaat tggctcagag gttcaacatt 360
 caatttcgag cgtctcgata tattaaggga ctcaatcaga catccgagta aaaagttatt 420
 gtcattcgaa tatgctcaaa gcttaaacca ttcaattcga gcgtctcgat atattatggg 480
 actcaatcag acatccgagt anaaaagtat t 511

<210> 13032
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 13032

tgtttctaca taccctgcag aaatagatgg tatttcacat tagccttacc cctcttgcg 60
 gcgagagggtt cgttcttttc ttgctcatgc aggtttttat aggcacttta tcaaggaatt 120
 gtgcaaaatg gcccttcac tatccaatct gctgcaaaag gaggcggagt ttgattttga 180
 tgaccgatgc aaagaggctt ttgattgact caagtgtgtg gtgactacca cccctatcat 240
 tcaagaacct gattggatag cccatttga gctaattgtc gatgcatcca attacacatt 300
 gggagttgcc cttgctcata agattgataa gctgccttgg gtgatctact atgcttccag 360
 aactttggat gctgctcaag aaaattacac tagcacagag aatgagctat tagcgatagt 420
 ttttgctctt gagaaatttc gtcatat 447

<210> 13033
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13033

agctngtttc aaattaagat cagtataaat tagtatatct cttgcgtcat gtccatacat 60
 nttacaaact taaagtcatg aatcatatct tcgaatgcgt ctgtatatat attgaaatat 120
 taagtgccat tgacaaaattt ttataaaaat tctaaattga aggtctgaat taacccatca 180
 aaattcattc catacaagaa tccatctaaa tctatttact ttcgaatacc aaaagacatt 240
 ttaagagtgg tcagaaatct catttgaata ccaacagata ttgttgctg aaaaaaaaaat 300

ctttattgtc gtaatcgaat accacacgat ttgtttatat tctatataac tcttgattga 360
 ataccacaag actttttaat cataaaaaag tttttaaaat tccttgaaat ttaateccatc 420
 ccacccctg 430

<210> 13034
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13034

ntntagcaat tcaaatgggc ataacgtttc actcggatgt cggattcaag cgcataatat 60
 atcgagacgc tcgaaattga acaatggaag ctcttgagca attccaatgg tcataacttt 120
 taactcggag gtccgattca ggcgcataat atctcgagac gctcgaaatt gaacaatgga 180
 agctcttgag caattcaaat tgtcataact tttcactcgg aggtcggatt caogcacata 240
 atatttcgag acgctcgaaa ttgaacaatg gaagctctcg agcaattcaa atggtcataa 300
 cttttcactc ggagggtccga ttcaggcgca taatatatcg agacgctcga aattgaacaa 360
 tggaagctct cttagcaattc atatgggtcat aacttttcac tcggatgtcc gattcacgca 420
 cataatatat c 431

<210> 13035
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 13035

agcttattgt cgattgaatt tgctcaaagc ttctgttctg aatttcgagc atctccatat 60
 actacgggaa acaatcggac atccgagtaa aaaggttttg ttgtttgaat tttctaagag 120
 gttatgattt caattttgag cgtctcgata tattacgaga ctcaatcagg catccgagta 180
 aaaagttatt gtcgtagat ttttcttaga gcttctatct cggattatga gcgtctcgat 240
 atattacgag attcattctg acatccgagt aaaaagttat tgcgtttga ttttgcataa 300
 agcttctgtt atgaatttcg agtgtctcga tatactacgg gacacaatcg gacatecgaa 360
 taaaaagtta ttgacat 377

<210> 13036
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13036

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agcttatata tatatataga tatatTTTT acttattaaa actaaataca attntgatat 60
grgttggttt atgtaatttt gaaataaaaa tatatagaaa gataaaactt gaaagggttat 120
atatagaaag ttcataaagt cgtaaaagat gaatatataa aaatgcgtca aaagtacatg 180
atgaagatag ggtgaacaga agttgggtta agtgaatttt tgacaacgga aacccaaaata 240
ataaaaataaa aaaaaaaaga aaaaagctat ggaaaacttg cgtgtcccca cagctatggt 300
ttgtagtctg atgcagagct gctgagataa ggatcatcaa atcgaatata tttctccata 360
ctgccttctt ctctgactat atggattcca attgctttaa tgactgagct ctctaactct 420
aacacacct 429
```

<210> 13037
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13037

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ccactgagtt gtctaatacc tganatatcc tttctgatgg tcgtggctct ggaagcangg 360
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<210> 13038
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 13038